CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 1, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

8- 1*Canal, Milner, Idaho....(P. & S.) 7-11
8- 1*Water mains, Jamestown, N. Y. .....(P. & S.) 7-11
8- 1*Bridge, Woodland, Cal..(P. & S.) 7-11
8- 1*Sewers, Scottdale, Pa....(P. & S.) 7-18
8- 2*Crib, etc., Racine, Wis.....(S) 7-11
8- 5*Conduit, Boston, Mass.....(S.) 7-18
8- 5*Paving, etc., Plainfield, N. J..(S) 7-18
8-10 Filling-in, Portsmouth, N. H.(S) 7-25
8-12*Dredging Norwalk, Conn.....(S) 7-11
8-16*Dredging, Jacksonville, Fla..(S.) 7-18
8-24 Quay wall Bremerton, Wash..(S) 8- 1
9-14*Valves, sluice gates, Manila, P. I. .....(P. & S.) 8- 1

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

8- 1 Lighting, Hamilton, Ont..... 7-18
8- 5 Wiring, etc., New York, N. Y.... 7-25
8- 5 Equipment, New York, N. Y.... 7-25
8-10 Power plant, Hickory, N. C.... 7-25
8-12 Electric equip., New York, N. Y. 8- 1
8-13 Elec. supplies, New York, N. Y.. 8- 1
8-13 Elec. supplies, League Island, Pa. 8- 1
8-15 Gas plant, San Angelo, Tex..... 8- 1
8-15 Wiring, etc., New York, N. Y.... 7-25
8-19*Posts and lamps, West Point, N.Y. 8- 1
8-29*Equipment, San Francisco, Cal.. 8- 1
8-31*Lighting, Lebanon, Pa..... 7-18
9- 3*Power plant, Winnipeg, Man.... 6-13

BRIDGES.

8- 1*Bridge, Woodland, Cal..... 7-11
8- 1*Viaduct, East St. Louis, Ill..... 7-18
8- 1 Viaduct, East St. Louis, Mo.... 7-25
8- 1 Bridges, Williamsport, Pa..... 7-25
8- 2 Bridge, Portland, Colo..... 7-18
8- 2 Bridges, Sunnyhill, La..... 7-18
8- 2 Bridges, Franklinton, La..... 8- 1
8- 3 Bridges, Perry, Okla..... 8- 1
8- 3 Bridge, Findlay, O..... 8- 1
8- 3 Superstr., Shellmouth, Man..... 7-18
8- 3 Abutment, Cleveland, Ohio 7-18
8- 3 Bridge, Washington C. H., Ohio. 7-25
8- 5 Bridges, Newbern, N. C..... 7-25
8- 5 Bridge, Chillicothe, Ohio..... 7-25
8- 5 Bridge repair, Shelbyville, Ind... 7-25
8- 5 Bridges, Valparaiso, Ind..... 7-29
8- 5 Bridges, Jackson, Ohio..... 7-25
8- 5 Superstr., Troy, Ohio 7-18
8- 5 Bridge work, Columbus, Ohio... 7-18
8- 5 Bridges, Vanceboro, N. C..... 7-18
8- 5 Bridge, Reame, Ga..... 7-11
8- 5 Bridges, Jackson, Ohio..... 7-18
8- 5 Bridges, Newton, Kan..... 8- 1
8- 5 Abutment, etc., Tipton, Ind..... 8- 1
8- 5 Bridges, Bluffton, Ind..... 8- 1
8- 5 Bridges, Lebanon, Ind..... 8- 1
8- 5 Bridge, Senatobia, Miss..... 8- 1
8- 5 Bridge, Greenwood, Miss..... 8- 1
8- 5 Bridge, Carrollton, O..... 8- 1
8- 5 Bridge repair, etc, Noblesville, Ind..... 8- 1
8- 6 Bridges, Atchison, Kan..... 8- 1
8- 6 Bridge, South Orange, N. J..... 8- 1
8- 6 Culvert, Cleveland, O..... 8- 1
8- 6 Bridge, New Lexington, O..... 8- 1
8- 6 Bridge, Shelbyville, Ind..... 8- 1
8- 6 Bridges, Covington, Ind..... 7-11
8- 6 Bridge, Brazil, Ind..... 7-25
8- 7 Bridges, Peru, Ind..... 8- 1
8- 7 Bridges, etc. Warsaw, Ind..... 8- 1
8- 7*Bridge, Rahway, N. J..... 8- 1
8- 8 Bridge, Zanesville, O..... 8- 1
8- 8 Bridge, New Albany, Ind..... 7-25
8- 9*Bridge, Reading, Pa..... 7-25
8-10 Bridge, etc., Cleveland, Ohio.... 7-18
8-10*Bridge, Washington, D. C..... 8- 1
8-12 Bridges, Talladega, Ala..... 8- 1
8-12 Bridges, Mitchell, S. Dak..... 7-25
8-15 Bridges, Jackson, Ohio..... 7-18
8-15 Bridge, Mount Gilead, O..... 7-18
8-16 Culvert repair, Cincinnati, O..... 8- 1
8-20*Bridges, Porto Rico..... 7-18
9- 2 Bridge, Tarboro, N. C..... 8- 1

BUILDINGS.

8- 1 Plans, Calgary, Alta. 7-11
8- 1 Bank, Knoxville, Tenn..... 7-11
8- 5 Post-office, Crookston, Minn.... 7- 4
8- 5 Mfg. plant, Camden, N. J..... 8- 1
8- 6 Building, New York, N. Y..... 7-18
8- 7 Cathedral, Halifax, N. S..... 7-11
8- 7 Addition, Ottawa, Ont..... 7-25
8- 8 Laundry (Mfg. Pl.), Wilmington, Ohio 7-25
8- 9*Hospital, Spring City, Pa..... 7-25
8-10*Reinforcing, West Point, N. Y... 8- 1
8-10 Building, Pullman, Wash..... 8- 1
8-12 Post-office, Mason City, Iowa... 7- 4
8-12 Heating, etc., New York, N. Y.. 8- 1
8-14*Elevators, Washington, D. C..... 8- 1
8-15 Building, Philadelphia, Pa..... 8- 1
8-15*Dwelling Stonington, Conn..... 7-25
8-19*Post-office, Alexandria, Minn.... 7-11
8-20*Post-office, Decatur, Ill..... 7-11
8-22 Post-office, Jackson, Miss..... 7-18
8-27 Post-office, Trenton, N. J..... 7-25
9- 4 Post-office, Quincy, Mass..... 8- 1
9- 5 Laundry (Mfg. Pl.), Evansville, Ind..... 8- 1

WATER-WORKS.

8- 1*Water mains, Jamestown, N. Y.. 7-11
8- 1 Ditch, Nevada, Iowa 7-18
8- 1 Canal, Milner, Idaho 7-18
8- 1 W.-Works, etc., Chewelah, Wash. 7-18
8- 1*Water mains, Jamestown, N. Y.. 7-25
8- 2 Pipe, etc., Writhee, Wis..... 7-25
8- 2 Hauling pipe, Youngstown, O.... 8- 1
8- 3*W.-Works, Chesterton, Ind..... 7-25
8- 3 Water main, Newark, Del..... 7-25
8- 5 W.-Works Decorah, Iowa 7-25
8- 5 Reservoir, etc., Ft. Adams, R. I. 7-18
8- 5 Drains, Arkansas City, Ark..... 8- 1
8- 5 Pipe, Thayer, Ill..... 8- 1
8- 6 W.-Works, Cherokee, Iowa..... 7-18
8- 6*Dams, New York, N. Y..... 7- 4
8- 6 W.-Works, Speed's Addition, Miss. 7- 4
8- 7 Drainage work, Emmetsburg, Ia. 7- 4
8- 7 Filter plant, Steelton, Pa..... 7-18
8- 8 W.-Works, Ft. Oglethorpe, Ga.... 7-18
8- 8 Pumps, New York, N. Y..... 7-25
8- 9*Filtrat'n plant, Ft. Hancock, N.J. 7-18
8-12 W.-Works, Belleplaine, Minn.... 7-25
8-13 Reservoir, Columbus, Ohio 7-18
8-13*Meters, Halifax, N. S..... 8- 1
8-14 Supplies, New York, N. Y..... 8- 1
8-19*Plans, Sacramento, Cal..... 5-30
8-20 W.-Works, Russellville, Ark.... 7-25
8-21*Dam, etc., Springfield, Mass..... 7-25
8-21*Strainer, Ft. Hancock, N. J..... 7-25
8-22*Filters, etc., Philadelphia, Pa... 7-25
9- 4*Water pipe, New Orleans, La..... 6-27
9- 8*Engines, etc., Louisville, Ky..... 8- 1
9-10*Ditch, Sibley, Iowa 7-25
9-14*Valves, sluice gates, Manila, P. I. 8- 1

SEWERS.

8- 1*Sewers, Scottdale, Pa..... 7-18
8- 2 Sewers, Amsterdam, N. Y..... 7-25
8- 2 Sewer, Austin, Minn..... 8- 1
8- 2 Sewer, Youngstown, O..... 8- 1
8- 3 Sewers, Manitowoc, Wis..... 8- 1
8- 3*Sewer, etc., Westfield, Mass.... 7-25
8- 3 Sewers, etc., New Bremen, Ohio.. 7-18
8- 5 Sewers, North Milwaukee, Wis.. 7-18
8- 5*Sewers, Westfield, N. J..... 7-25
8- 5 Sewer, Grand Forks, N. Dak.... 7-25
8- 5 Sewer, Burlington, Iowa..... 8- 1
8- 5 Sewer, etc., Orange, N. J..... 8- 1
8- 5 Sewer, Phillipsburg, N. J..... 8- 1
8- 6 Culvert, Cleveland, O..... 8- 1
8- 6 Sewers, etc., Trenton, N. J..... 8- 1
8- 6 Sewer, Oneida, N. Y..... 8- 1
8- 6 Sewers, etc., New York, N. Y.... 8- 1
8- 6 Sewers, Alexandria, La..... 7-18
8- 7 Drainage work, Emmetsburg, Ia. 7-11
8- 8*Sewers, etc., Milford, Mass..... 8- 1
8- 8 Sewers, Green Bay, Wis..... 8- 1
8-10 Sewer, Marshfield, Wis..... 7-25
8-12 Sewers, Madison, S. Dak..... 8- 1
8-12 Sewers, New York, N. Y..... 8- 1
8-15*Sewers, Arkadelphia, Ark..... 8- 1
8-15 Sewer, Camden, Ark..... 7-25
8-17*Sewers, etc., Asbury Park, N. J.. 8- 1
8-19 Sewers, Cape Girardeau, Mo..... 8- 1
8-19 Sewer, Port Clinton, O..... 8- 1
8-19*Sewers, etc., Riverside, N. J..... 8- 1
8-20 Sewers, Cleveland Heights, O.... 8- 1
8-22 Sewers, etc., Fayetteville, Ark.... 8- 1
8-30 Sewers, Evansville, Ind..... 8- 1
9- 3*Sewer, New Philadelphia, O..... 8- 1
9-11*Sewers, etc., New Orleans, La.... 7- 4

STREETS AND ROADS.

8- 1 Roads, Green Castle, Ind..... 7- 4
8- 1 Roads, Rahway, N. J..... 7-18
8- 1 Pike, Greensburg, Ky..... 7-18
8- 1 Sidewalks, etc., New York, N. Y.. 7-25
8- 2 Road, Tolland, Colo..... 8- 1
8- 3 Grading, etc., Terre Haute, Ind.. 8- 1
8- 3 Paving, etc., New Bremen, O..... 8- 1
8- 3 Broken stone, etc., New York... 7-25
8- 3 Grading, etc., New York, N. Y.. 7-25
8- 3*Paving mchny., Williamsport, Pa. 7-18
8- 3 Highways, St. Clairsville, Ohio.. 7-18
8- 5 Paving, etc., Plainfield, N. J.... 7-18
8- 5 Roads, Spencer, Ind..... 7-18
8- 5 Roads, Mt. Vernon, Ind..... 7-18
8- 5 Sidewalks, etc., Montgomery, Ala. 7-25
8- 5 Road, Columbus, Ind..... 7-25
8- 5 Walks, Ft. McKenzie, Wyo..... 7-25
8- 5 Highway, Skowhegan, Me..... 7-25
8- 5 Paving, etc., Lawrence, Kan..... 8- 1
8- 5 Paving, etc., Burlington, Iowa.... 8- 1
8- 5 Macadam, Sterling, Ill..... 8- 1
8- 5 Paving repair, Chicago, Ill..... 8- 1
8- 5 Paving, New Haven, Conn..... 8- 1
8- 6 Paving, etc., Shelbyville, Ind..... 8- 1
8- 6 Paving, Sewickley, Pa..... 8- 1
8- 6 Curbing, etc., Clarinda, Iowa..... 8- 1
8- 6 Road work, Edgewater, N. J..... 8- 1
8- 6 Roads, Washington, D. C..... 8- 1
8- 6 Paving, New York, N. Y..... 7-25
8- 6 Road, Martinsville, Ind..... 7-25
8- 6 Roads, Washington, Ind..... 7-25
8- 6 Road, Bloomington, Ind..... 7-18
8- 6 Road, Spencer, Ind..... 7-18
8- 6 Paving, etc., Reynoldsville, Pa... 7-18
8- 6 Road, Brazil, Ind..... 7-18
8- 6 Roads, Covington, Ind..... 7-11
8- 6*Paving, Sharpsville, Pa..... 7- 4
8- 6 Roads, Covington, Ind..... 7-11
8- 7 Paving, etc., Peru, Ind..... 7-18
8- 7 Roads, Rockville, Ind..... 7-25
8- 8 Highway, Concord, N. H..... 7-25
8- 8 Paving, New York, N. Y..... 7-25
8- 8 Highway, Hookset, N. H..... 7-25
8- 8 Road, Hartford City, Ind..... 7-25
8- 8*Paving, etc., Riverton, N. J..... 7-25
8- 8 Walks, New York, N. Y..... 8- 1
8- 8 Sidewalks, etc., Tuscaloosa, Ala.. 8- 1
8- 8 Sidewalk, etc., New York, N. Y.. 8- 1
8- 9 Paving, etc., Monessen, Pa..... 8- 1
8-10 Paving, etc., Ilion, N. Y..... 8- 1
8-10 Macadam, etc., Celina, O..... 8- 1
8-10 Road, East Liverpool, O..... 8- 1
8-14 Sidewalks, etc., New York, N. Y.. 8- 1
8-14 Paving, New York, N. Y..... 8- 1
8-15 Sidewalks, New York, N. Y..... 8- 1
8-15 Sidewalks, New York, N. Y..... 8- 1
8-17 Paving, Huntsville, Ala..... 8- 1
8-17 Paving, Cleveland, O..... 8- 1
8-19*Grading, etc., Westfield, N. J.... 8- 1
8-19 Paving, Steubenville, Ohio..... 7-25
8-20 Sidewalk, Cleveland Heights, O.. 8- 1
8-26 Grading, etc., Ft. Washington, Md..... 8- 1
8-27*Paving, etc., Pensacola, Fla..... 7-25
9- 3*Paving, New Philadelphia, O..... 8- 1

MISCELLANEOUS.

At once.* Earth excav., Ithaca, N. Y.... 8- 1
At once.* Concrete, Ithaca, N. Y..... 8- 1
8- 1 Greenhouse, New York, N. Y..... 8- 1
8- 1 Garbage disposal, New York..... 7-25
8- 1*Canal, Milner, Idaho..... 7-25
8- 1 Ditch, Marshalltown, Iowa..... 7-11
8- 1 Pier, etc., Elizabeth, N. J..... 7-18
8- 2 Wharf, etc., San Diego, Cal..... 7- 4
8- 2*Breakwaters, Racine, Wis..... 7-11
8- 2 Levee, New Orleans, La..... 8- 1
8- 2 Ditch, Hooppole, Ill..... 8- 1
8- 3*Pier, Porto Rico 8- 1
8- 3 Wharf, New Orleans, La..... 6-20
8- 5 Wharf, Somers Point, N. J..... 7-25
8- 5 Wire fence, Newport, R. I..... 7-25
8- 5 Bulkhead, Long Branch, N. J.... 7-25
8- 5*Garbage, etc., Harrisburg, Pa.... 6-27
8- 5*Dredging, Wilmington, Del..... 7-18
8- 5 Ditch, Sullivan, Ind..... 7-18
8- 5*Conduit, Boston, Mass 7-18
8- 5 Drain, etc., Arkansas City, Ark.. 8- 1
8- 5 Wharf repairs, Chester, Pa..... 8- 1
8- 6 Rubber hose, New York, N. Y.... 8- 1
8- 6 Drainage, Pocahontas, Iowa 7-18
8- 6 Pier, New York, N. Y..... 7-25
8- 7 Crib, bulkhead, Bklyn., N. Y.... 7-25
8- 7*Dredging, Porto Rico..... 6-27
8- 7 Canal, Peterboro, Ont..... 8- 1
8- 8 Miscell. supplies, Panama..... 8- 1
8- 8 Wireless station, Omaha, Neb.... 7-25
8- 9 Miscell. supplies, Panama..... 8- 1
8- 9*Riprap, Boston, Mass..... 8- 1
8- 9 Patrol wagon, etc., N. Y., N. Y.. 8- 1
8-10*Reinforcing, West Point, N. Y.... 8- 1
8-10 Filling-in, Portsmouth, N. H.... 7-25
8-12*Dredging, Norwalk, Conn..... 7-11
8-12*Lock, etc., Brownsville, Pa..... 7-18
8-12*Dredging, Philadelphia, Pa..... 7-18
8-12 Miscell. supplies, Panama..... 8- 1
8-12 Dredging, Washington, D. C..... 8- 1
8-12 Tunnel, New York, N. Y..... 8- 1
8-13 Freight sheds, New York, N. Y.. 7-25
8-14*Breakwater, Key West, Fla..... 7-25
8-14*Bear trap gates, Wheeling, W. Va. 7-18
8-15 Subway entrance, Boston, Mass.. 8- 1
8-16*Jetty work, Galveston, Tex..... 7-18
8-16*Dredging, Jacksonville, Fla..... 7-18
8-17 Breakwater, Oswego, N. Y..... 8- 1
8-19*Lamp posts, etc., West Point, N. Y..... 8- 1
8-19 Vessel, Washington, D. C..... 8- 1
8-19*Dredging, New London, Conn.. 7-25
8-20*Wharf, San Diego, Cal..... 6-20
8-20*Fence, Oswego, N. Y..... 8- 1
8-20*Dredging, Charleston, S. C..... 8- 1
8-20*Dredging, Boston, Mass..... 8- 1
8-20 Copper wire, South Africa..... 8- 1
8-21 Buoys, etc., New York, N. Y.... 8- 1
8-22*Lantern, Hawaii..... 8- 1
8-22*Dredging, Savannah, Ga..... 7-25
8-23*Dredging, Savannah, Ga..... 7-25
8-24 Quay wall, Bremerton, Wash..... 8- 1
8-25 Dredging, Cheboygan, Mich..... 7-25
8-26*Embankment, New York, N. Y.... 8- 1
8-26*Jetties, Jacksonville, Fla..... 8- 1
8-28*Channel, Newport, R. I..... 8- 1
8-30*Suction dredges, New York, N. Y. 8- 1
8-30 Excav., Cape Porpoise, Me..... 8- 1
9- 3 Torpedo boats., Wash., D. C..... 7-25
9-10 Drainage, Sibley, Iowa..... 8- 1
9-30*Searchlight outfit, Washington, D. C..... 8- 1

FOREIGN.

8- 2 'Phone materials, Australia 6- 6
8- 2 W.-Works, France 7-11
8- 6 Electrical supplies, Australia..... 7-11
8- 7 Hydraulic cranes, England..... 7-11
8-12 Electric railway, Spain..... 7-11
8-13 Locomotives, Australia 6-20
8-14 Elec. equip., Australia 6-27
8-16 Railway, Italy 7-11
9- 2 Wharf plans, etc., Sweden..... 7- 2
9-30 Railway bridges, Chile..... 8- 1
9-15 Abattoir plans, France..... 6- 6
12-31 City lighting, India 6- 6

CIVIL SERVICE.

8- 2 Chemist, New York, N. Y..... 7- 4
8-12 Subinspectors, North Chicago, Ill. 8- 1
8-14 C. E., Supt. Constn., Wash., D.C. 7-18
8-14 Computer, Wash., D. C..... 7-18
8-14 Map printer, Wash., D. C..... 7-18
8-21 Draftsman, San Francisco, Cal.. 7-18
8- 21 Aid, Washington, D. C..... 8- 1
8- 21 Computer, Washington, D. C.... 8- 1
8-22 Plan examiner, New York, N. Y.. 8- 1
8-24*Leveler, Albany, N. Y..... 8- 1
8-24*Asst C. E., Albany, N. Y..... 8- 1
8-24*Bridge Designer, Albany, N. Y.. 8- 1
8-24*Bridge Draftsman, Albany, N. Y.. 8- 1
8-24*C. E. Draftsman, Albany, N. Y.. 8- 1
8-24*Foreman, Albany, N. Y..... 8- 1
8-28 Chief Engineer, Chicago, Ill..... 8- 1

RAILWAYS.

ARKANSAS ANTHRACITE & WESTERN.—This company has been granted an additional extension of 18 months in which to begin construction of its proposed line from Fort Smith, Ark., through Sebastian, Franklin and Logan Counties, to Prairie View, 65 miles. Capital stock, $2,500,000. Directors: R. L. Remmel, F. W. Tucker, Charles McKee, J. F. Loughborough, George Heim and R. B. Chitwood, of Fort Smith. The company was granted a charter on July 19, 1904, and it was renewed Dec. 23, 1905. The charter would have expired on July 19, 1907, had it not been extended. R. D. Dunlap and C. H. Lankford represented the company before the State Board of Railroad Commissioners. (Noted on April 26, 1906.)

CHICAGO & WABASH VALLEY.—It is announced that the New York Central lines have signed a contract whereby they will come into possession of the Chicago & Wabash Valley Railroad on Oct. 1. The Chicago & Wabash Valley has 60 miles of completed track from near La Fayette, Ind., to within a few miles of Crown Point. The Vanderbilt system will continue the line south to the coal fields and north to Gary, Ind. B. J. Gifford is Pres. and Gen. Mgr. of the C. & W. V., at Kankakee, Ill.

COLUMBUS, MEMPHIS & PENSACOLA.—An election will be held at Columbus, Miss., on Aug. 1 to decide upon issuing $50,000 of bonds in aid of this proposed line between Aberdeen, Miss., and Columbus. Grading has commenced at Aberdeen. Right-of-way is said to be nearly all secured. H. E. Reynolds is Pres., Columbus, Miss. Noted on July 18.

CORVALLIS & ALSEA RIVER.—This company has been incorporated in Oregon, with $150,000 capital stock, to construct two lines of railroad, one out of Corvallis to Blachly, Lane County, and the other from Corvallis to Alsea, via Alsea River. F. C. Miller, C. J. Johnson and Virgil E. Watters, of Portland, are the incorporators.

EAST MOLINE & CAMPBELLS ISLAND.—Incorporated in Illinois on July 25. The capital stock of the new line is fixed for the present at $2,500. The company will construct and operate a railway from East Moline to Campbells Island in Rock Island County, Ill. The incorporators and first board of directors are Joseph F. Porter and James F. Lardner, of Davenport, Iowa; Burton F. Peck, Cyrus E. Dietz and O. E. Childs, of Moline, Ill.

GLADE & GUYANDOTTE.—G. S. Beckwith, Treas. of this company, Cleveland, Ohio, advises us that "there probably will be no work done on this line until arrangements are made with property owners along the route to assist in providing funds." Company was incorporated to build a railroad from Glade to Mullens, W. Va., 30 miles long. A. D. Preston is Pres., Beckley, W. Va.

GULF LINE.—Chartered in Georgia, with $400,000 capital, to build a railway from Hawkinsville, Ga., through Pulaski, Wilcox, Worth, Turner, Mitchell, Brady and Decatur Counties to the Florida boundary, 130 miles, and thence through Florida to the Gulf of Mexico. It will be an enlargement of the Flint River & Gulf Railroad. The incorporators are C. A. Alford, J. S. Westberry, C. H. Hillhouse and R. H. Pinson, of Sylvester; T. R. Bennett and W. N. Spence, of Camilla; Morgan Tompkins, J. J. Whitfield, T. B. Rogan, T. E. Lovejoy, W. C. Lovejoy, Henry E. Rhodes and T. H. Bridges, of Hawkinsville; and Jas. H. Taylor, of Macon, Ga. Noted on May 30.

HOUSTON, SABINE & RED RIVER.—See Yankton Southern R. R.

KANSAS CITY SOUTHERN.—Right-of-way has been nearly all secured for the proposed extension of this line to New Orleans. The New Orleans branch will start from Leesville, La., 118 miles north of Port Arthur, and run southeasterly, through Oberlin and Eunice, to Crowley, on the Southern Pacific, which will be paralleled as far as New Iberia, 41 miles. From that point the route runs easterly and then southeasterly, between the Texas & Pacific and Southern Pacific, passing through a rich sugar plantation country. The length of the branch from Leesville to New Orleans will be about 250 miles, and the distance from Kansas City to New Orleans about 918 miles. A. F. Rust is Engr., Kansas City, Mo.

KANSAS CITY, LAWTON & PACIFIC.—What was known as the J. L. Bell franchise and terminal privileges in El Paso, Tex., and Carlsbad, N. Mex., have been acquired by the Kansas City, Lawton & Pacific Railway Co. The deal recently was consummated by E. A. Hill, of Muskogee, Ind. T., Gen. Representative of the Kansas City, Lawton & Pacific Railway Co., and the officers of the El Paso-Carlsbad Townsite & Development Co. The latter company has been organized and chartered under the laws of New Mexico. The officers are A. Courchesne, Pres.; W. T. Jenkins, First Vice-Pres.; J. L. Bell, Second Vice-Pres.; W. H. Winters, Secy., and W. C. Davis, Treas.

KNOXVILLE, SEVIERVILLE & EASTERN.—This company has filed application in Tennessee for a charter to build a line from Knoxville, Tenn., via Rockford to Sevierville, with authority to build from the latter place to the Big Pigeon River, on the North Carolina boundary, and thence to Rutherfordton, N. C. Branches may be built from Rockford to Maryville, Tenn.; from or near Sevierville up different branches of the Little Pigeon River, and also from a point between the

Big and Little Pigeon Rivers to connect with the Southern Railway at or near Bridgeport or Newport, Tenn. W. J. Oliver, of Knoxville, and Eastern capitalists are said to be backing the plan. The incorporators are S. B. Luttrell, William P. Chamberlain, D. M. Rose, Alexander McMillan and E. G. Oates, of Knoxville. Capital, $500,000.

LORAMA R. R.—M. K. Duty, Pres., Pennsboro, W. Va., advises us that company will receive bids until Aug. 15 for building the line from Goose Neck to Pullman, W. Va., five miles. Surveys are made and right-of-way mostly secured. Noted on July 11.

MARION & SOUTHERN.—Company has been granted a charter to build its proposed line from Marion to Bennettsville, S. C., about 30 miles. The Marion County Lumber Co. is interested. Capital, $50,000. The officers are: J. L. Camp, of Franklin, Va., Pres.; E. M. Wiley, of Wiley, Harker & Camp Co., Lumber, 949 Broadway, New York, Vice-Pres.; John Harker, New York, Treas.; C. C. Vaughan, Jr., of Franklin, Va., Secy.

MEMPHIS, PARIS & GULF.—Officers have been elected as follows: Pres., W. W. Brown; Vice-Pres., C. C. Henderson; Supt., C. W. Dodson; Traffic Mgr., A. C. Ramsey; Treas., W. E. Barkman; Secy., J. W. Bishop. Headquarters, Memphis, Tenn. The road was incorporated some time ago to build from Memphis via Meridian, Miss., to the Gulf of Mexico.

MISSOURI RIVER & GULF.—Maps have been filed by this company with the United States Interior Department showing its line located from a point 12 miles south of McAlester, Ind. T., to the Texas boundary, 72 miles. A. L. Berger, Pres., 401 Portsmouth Bldg., Kansas City, is reported as saying that survey is being made. He is attorney for the Harriman lines, which are said to be interested. Other directors are K. L. Browne, R. B. Lane, C. K. Wells and C. N. Prouty. E. Holbrook is Ch. Engr. It is reported that the line will extend from Kansas City to Galveston, Tex.

NASHVILLE, SHELBYVILLE & DECATUR.—This company has elected officers as follows: Pres., H. B. Cowan, Bedford, Tenn.; Vice-Pres., W. R. Hall, Decatur, Ala.; Secy., John D. Hutton, Shelbyville, Tenn.; Treas., J. F. Boyd; Gen. Mgr., W. D. Hill. As previously noted, this company has been chartered in Tennessee to build a line 116 miles long. Present capital stock, $50,000, to be increased at a later date. The incorporators are H. B. Cowan, R. W. Clark, J. F. Boyd, W. G. Hill, J. D. Hutton, V. S. Parsons, H. C. Dyer, all of Shelbyville; H. K. Bryson and W. Z. Dozier, of Fayetteville, and John F. Brock and W. R. Hall, of Decatur. The company will build a steam railway from Nashville to Murfreesboro, Rutherford County, thence southwest to Shelbyville, thence southeast to Fayetteville, thence south to Decatur, Ala. Here it will connect with the Southern Railway, the Memphis & Charleston and the Louisville & Nashville. In Giles County it will make connection with the proposed Nashville and Huntsville and also with the Cincinnati & Birmingham Air Line. At Nashville it will connect with the Southern and the Illinois Central. At Decatur it will connect with the Birmingham & Mississippi Southern, now in course of construction. It is proposed to build a low-grade road, with light grades and light curvatures.

OPEN RIVER RY. & NAVIGATION.—E. W. McComas, Secy.-Treas., advises us that surveys have been completed, and right-of-way has been obtained for this road which will be built between Holdman and Simmons Landing, Ore., 17 miles. The construction will consist mostly of earthwork. Contracts will be let about Oct. 1. C. E. Curry, Portland, Ore., is Pres.; C. E. MacComber is Ch. Engr., Pendleton.

OKLAHOMA CENTRAL.—This line is reported to be completed from Lehigh to Middleburg, Ind. T., 115 miles, but it is expected to have 15 miles additional completed to Chickasha, Ind. T., by Aug. 1. Proposed extensions are from Chickasha to Canadian, Tex., 200 miles; also from Lehigh, Ind. T., to Paris, Tex., 85 miles. F. C. Hand, Ch. Engr., Lehigh.

SOUTHERN PACIFIC.—GEORGE McCABE, of Portland, Ore., is reported to have been awarded the contract for improving the main line of this road near Leland, Ore. The company will spend $100,000 in straightening curves and in filling a number of trestles, including the Brimstone trestle, it is said.

ST. LOUIS, BARTLESVILLE & PACIFIC.—Company will receive bids at once for the construction of its proposed line from Webb City, Mo., to Poudcreek, Okla. F. M. Overlees, at Bartlesville, Ind. T., is Pres.; D. H. Rhodes is Ch. Engr.; H. J. Holm, Secy.; Conrad Strecker, Treas.

ST. LOUIS & SAN FRANCISCO.—Press reports state that Dixon Hill, 112 miles from Springfield, Mo., is to be cut out. It is nine miles long. The cut will be from Crocker to Rolla, leaving out Newburg and other intermediate stations. Recently the Frisco appropriated $47,000,000 for improvements, which include double-tracking and the removal of this hill, the cost in the latter instance being figured at $1,700,000. When the work is completed the road will be redivisioned, and Monett and Crocker will become division points in place of Springfield and Newburg.

This railroad is to be double-tracked between Kansas City and Springfield. A. J. Davidson, Pres. of the Frisco System, is quoted as saying that several new team tracks will be built in Kansas City. He also states that next year the company will spend about $4,000,000 on terminal improvements in Missouri and Kansas. A stockholders' meeting is to be held on Aug. 24 to vote on $47,000,000 for improvements and betterments on the entire system. If this bond proposition is approved, the company will be able to obtain $10,000,000 by the end of this year. This money, according to the official explanation, will be used for "this year's capital expenditures and for future additions, improvements and betterments." The Frisco will have $10,000,000 for improvements during the next two years; $2,500,000 a year in 1909, 1910 and 1911, and $3,000,000 a year after 1911, a total of $42,184,000. In addition, there will be a total of $5,000,000 for new equipment.

TRANS-CONTINENTAL.—The Trans-Continental Ry. Commission, Ottawa, Ont., has awarded contracts for rails and fastenings for the Grand Trunk Pacific aggregating about $1,850,000. The ALGOMA STEEL WORKS, of Sault Ste. Marie, Ont., has a contract for 23,000 tons for the Abitibi section, half of which is to be delivered by Nov. 1, 1908, and the other half in 1909. The DOMINION IRON & STEEL CO., of Sydney, N. S., has an order for 43,000 tons, half to be delivered before November, 1907, and the other half by July, 1908. Deliveries to be made at Edmundston, N. B., at Quebec, and at Levis, Que.

WISCONSIN & NORTHERN.—An extension will be built by this company from North Crandon, Wis., to the northern boundary of Wisconsin, a distance of 34 miles. The intention of the company is to build to the Gogebic range and connect with the Northern Pacific. The company is capitalized at $1,000,000. The W. & N. R. R. now operates 27 miles of line. C. H. Hartley, Oshkosh, Wis., is Gen. Mgr.

YANKTON SOUTHERN.—The Houston, Sabine & Red River R. R. has been purchased by the Yankton Southern R. R. Co., which is to build a line from Yankton, S. Dak., to Galveston, Tex. Edward Kennedy and others were incorporators of the Houston line. The officers of the Yankton & Southern, which will apply for a charter in Texas, are: Fremont Hill, of Yankton, S. Dak., Pres.; H. Masterson, Vice-Pres.; H. N. Atkinson, Secy.; T. W. House, Treas. The directors are W. A. Smith, W. J. Moore, John Luepy, J. O. Ross, J. Lane, E. Cage and R. E. Brooks. Capital, $350,000. Noted on Jan. 17.

ELECTRIC RAILWAYS.

GREAT BARRINGTON, MASS.—The Berkshire St. Ry. Co. has discontinued work on its 13-mile extension from Great Barrington to Canaan, Conn., and the 3-mile extension to South Egremont. Failure to secure franchises to carry express in Great Barrington and Egremont is said to have influenced this action. J. K. Punderford, New Haven, Conn., is Gen. Mgr.

NORTH ADAMS, MASS.—The Berkshire St. Ry. Co. will rebuild a line to Hoosick Falls, N. Y., but this work probably will not be undertaken until next year.

This company is said to have plans for building an extension to Houghtonville or an extension on River St. Leavenworth Wheeler is Supt., Pittsfield, Mass.

WATERBURY, CONN.—The Waterbury & Millidale Tramway Co. has been organized at Waterbury with the following officers: Pres., Charles H. Clark, of Southington; Secy., John H. Cassidy, of Waterbury; Treas., Edwin E. Todd, of Southington. Directors, Otis S. Northrop, of Waterbury; Charles H. Clark, of Southington; George F. Hughes, of Waterbury; Edwin S. Todd, of Southington, and John H. Cassidy, of Waterbury. The company is capitalized at $100,000.

TROY, N. Y.—The United Traction Co., of Albany, has been awarded the franchise for the construction of a double-track street railway from the corner of Pawling and Spring Aves., along Spring Ave. to Hill St., and along Jefferson St. to Fourth St., in Troy. When completed, the road will greatly facilitate travel to Averill Park. The company has agreed to pay the abutting property owners' share of the paving of Spring Ave., from Pawling to Linden Ave., a distance of 6,600 ft. City Engineer Cary estimates the cost of paving at $80,000. Of this amount the company will pay the cost of paving between the rails and for 2 ft. on each side, or a total of $40,000, and this, together with half the remaining sum, $20,000, will make the total of the company's share $60,000. H. A. Benedict is Ch. Engr., at Albany.

SCRANTON, PA.—The Scranton Ry. Co. may extend its line from Minooka to Rocky Glen. Frank Caum is Gen. Mgr.

TITUSVILLE, PA.—Press reports state that "the high cost of materials and labor has prompted the Titusville St. Ry. Co. to postpone the construction of the lines to Cambridge Springs and Oil City until next spring."

PITTSTON, PA.—The Wilkes-Barre & Wyoming Valley Traction Co. will build a line from Pittston to West Avoca, it is said, under the title of the Pittston & Avoca St. Ry. Co. Thomas K. Bell is Ch. Engr., Philadelphia.

WASHINGTON, D. C.—William H. Benton, Ch. Engr. of the Washington, Westminster & Gettysburg R. R. Co., 1405 F St., N. W., Washington, D. C., advises us that right-of-way is mostly obtained for this company's proposed line from Washington to the Gettysburg battlefield, via Sandy Springs, Laytonsville and Westminster, Md., 80 miles. Surveys have been run. This railway will be a high-speed electric line. Company is ready to negotiate for capital. J. B. Colgrove, Washington, is Pres.

GREAT FALLS, VA.—The Great Falls & Old Dominion R. R. Co. will build an extension to Frederick, Md., and possibly to Harpers Ferry and Charlestown, W. Va. Theo. J. King is Ch. Engr., 36th and M Sts., N. W., Washington, D. C.

WHEELING, W. VA.—The Wheeling Traction Co., it is announced, will extend the line running to Bellaire, Ohio, to Neffs, thence by way of Bethesda Park and Barnesville, connecting with the Zanesville & Columbus line at or near Cambridge, Ohio. The company will build a line to Hickory, Pa., along the route of the Wabash Railroad to Carnegie, Pa., where connection will be made with the Pittsburg Railways Co.'s system. Geo. O. Nagle is Gen. Mgr., Wheeling.

ANDERSON, S. C.—The Anderson Traction Co. may start work about Sept. 1 on its proposed extension from Belton to Greenville, S. C., 25 miles. F. G. Brown is Vice-Pres.

AMERICUS, GA.—The Americus Ry. & Light Co. has successfully concluded negotiations whereby the Southern Public Service Co., of Philadelphia, it is stated, takes over the Dodson contract to furnish gas, electric lights and power to the city of Americus and to operate four miles of trolley line. The capital of the company is $200,000 and application for charter has been filed. A bond for $25,000 will be placed with the city as a guarantee and the work of construction will begin in August on the new light and power plant. Work on the street railway is expected to start before the specified date—Dec. 1. Noted fully last week.

FERGUSON, KY.—A street railway franchise in Ferguson is to be sold on Aug. 5, at 7.30 p. m. C. E. White is Chn. of the Board of Trustees.

SCRANTON, MISS.—M. J. McDermott and Sidney Lowenstein, of the Bank of Mobile; J. D. Willoughby, of the First National Bank; R. O. Harris and others are interested in building an electric railway between Scranton and Mobile. The project embraces a stock company with a capital of $500,000. The distance to be covered is 40 miles, the projected line running almost parallel with the Louisville & Nashville Railroad and through Orange Grove and St. Elmo, Miss.; Grand Bay, Ala., and other towns.

COLUMBUS, OHIO.—The Toledo & Fort Wayne Electric Railway Co. of Cleveland, $10,000 capital, was incorporated last week by E. J. Pinney, H. J. Nord, Lewis A. Goldstein, Thomas C. Willard and John E. Lowry, to construct, maintain and operate an electric railway connecting Toledo and Fort Wayne, Ind., and passing through Lucas, Defiance and Williams Counties, Ohio, and Allen County, Ind.

AKRON, OHIO.—The Akron, Canton & Youngstown Elec. Ry. Co. has been financed by the Cleveland Trust Co. Z. W. Davis, of Canton, is Pres. The company will issue $200,000 of bonds for the purchase of right-of-way, for the construction, equipment and completion of the proposed line from Akron, through Canton, to Youngstown. The mortgage is conveyed to the Cleveland Trust Co., which purchased all of the bonds issued. John E. Monnot, of Canton, is the promoter of this project. Noted on June 20.

CLEVELAND, OHIO.—The Elyria Southern Railway Co., with capital stock of $100,000, has been incorporated by W. J. Elliott, F. N. Carpenter, W. E. Moser, J. M Storr and F L. Sargent, to build an electric railway between Elyria and West Salem, passing through Lorain, Medina, Wayne, Ashland, Richland and Knox Counties. The headquarters will be in Cleveland.

GARY, IND.—The Gary Street & Interurban Railway Co. has filed articles of incorporation, with a capital stock of $400,000, for the purpose of building and operating street and interurban railroads in and connecting Gary, Tolleston, Hammond, East Chicago and Whiting. The directors are Frank N. Gavitt, C. B. Manbeck and M. N. Casterman.

CHICAGO, ILL.—Plans for the extension of the Northwestern Elevated R. R. Co. over Evanston Ave. and its connection with the right-of-way of the Chicago, Milwaukee & St. Paul Co. are being completed. The elevated road will run to the surface at Ainslee St. It is now contemplated to have arrangements for a through-express service from Evanston to Van Buren St. and Wabash Ave. in 40 minutes before Jan. 1. Mason B. Starring, Pres., states that the company has employed Ford, Bacon & Davis, Engrs., 115 Broadway, New York, to devise means of increasing the efficiency of the loop. It will be necessary to buy 80 new cars for the additional service and the contracts for half that number will be let at once.

PARIS, ILL.—We are officially informed that the Paris & Northern Traction Co., with the principal office at Paris, which was recently incorporated with a capital of $5,000 to construct a railway from Paris, Edgar County, Ill., through the counties of Edgar and Vermillion to Ridge Farm and Brocton, in Vermillion County, Ill., is now making surveys. Right-of-way is not secured yet. The incorporators and first board of directors are: F. L. Kidder, Pres.; L. L. Caninne, John J. Cummings and J. E. Parrish, of Paris, Ill., and George W. Fair, of Chrisman, Ill.

BONAPARTE, IOWA.—We are officially advised that engineering work will be commenced about Aug. 1 by the Bonaparte-Burlington Interurban Ry. Co. This company was recently incorporated in Iowa to build an electric line from Bonaparte, Iowa, to Burlington and Fort Madison, 49 miles. Right-of-way has not been obtained yet nor has the capital for construction. The Wallace-Coates Engineering Co., 355 Dearborn St., Chicago, will have charge of engineering work. Capital stock is $10,000. The officers are: Pres., J. A. Johnson; First Vice-Pres., John Blaul; Second Vice-Pres., T. J. Lampe; Treas., H. H. Meek; Secy., E. E. Egan. Directors—Dan Cresap, A. G. Roberts, C. C. Baule, Luke Palmer and W. E. Blake, all of Bonaparte.

MITCHELL, S. DAK.—At a recent meeting held at Brookings, a committee was appointed consisting of R. F. Kerr, of Brookings; C. B. Kennedy, of Madison; and D. B. Miller, of Mitchell, to take under consideration the plans in connection with the proposed steam or electric railroad between Mitchell and Marshall, Minn., 140 miles. A preliminary survey only has been made. Under date of July 23, Mr. Kerr writes that "five country seats are trying to secure better connections, and it has not gone beyond the 'agitation' stage yet."

KANSAS CITY, MO.—The W. K. Palmer Co., Dwight Bldg., Kansas City, will have charge of engineering in connection with the Kansas City & Olathe Elec. Ry. Co.'s proposed line from Rosedale to South Park, Merriam, Shawnee, Lenexa, Lackmans and Olathe, 20 miles. F. P. Dickson Bldg., Kansas City, is Pres. Right-of-way has been obtained and surveys made. Capital has been secured. This company was recently incorporated with a capital of $175,000. Headquarters, Rosedale.

WATERVILLE, WASH.—The Northern Ry. Co. has been incorporated in Washington with $7,000,000 capital. A. L. Rogers, M. B. Howe, I. W. Mattingly and A. E. Case. The principal object is a railroad, either steam or electric, from Waterville, in Douglas County, easterly and southeasterly direction by the easiest and most practical route to Pasco, in Franklin County, to be 65 miles long. A branch line, 65 miles, will be built from Moses Coulee, in Douglas County, to Farmer, Wash.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

GROVELAND, MASS.—The Electric Light Commission has secured plans and specifications for the proposed power-house and will be ready to proceed with the erection of the plant soon. The plant will be erected on land owned by the town.

HARTFORD, CONN.—The Hartford Electric Light Co. is making arrangements to build an addition to its boiler plant at Front Point. The building will be equipped with two Hornsby boilers of 2,500 HP. each, which will increase the capacity of the plant nearly 60 per cent. R. W. Rollins is Mgr.

NEW YORK, N. Y.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., Aug. 13, to furnish at the navy yard, New York, N. Y., a quantity of naval supplies, as follows: Schedule 117—Searchlight projectors, carbons, engine revolution indicators, generating sets, incandescent lamps, bells and buzzers, portable testing sets, testing generators, electric soldering irons, keyboards, gonda cells, fuse wire, fuses, dynamotors, sockets, interior fittings and fixtures, push buttons, plugs, branch boxes, lanterns, globes, etc., switch handles, steel and brass enameled conduit and fittings, conductor, cable, bell wire. Schedule 134—Hydraulic accumulator. E. B. Brown is Paymaster-Gen., U. S. N.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 12, by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in the additional story of Public School No. 80, west side of 17th St., 145 ft. south of Neptune Ave., Boro. of Brooklyn; also in new Public School No. 66, on the north side of 86th St., about 176 ft. each of First Ave., Boro. of Manhattan; also in new Public School No. 91, on corner of Forsyth and Stanton Sts., Boro. of Manhattan; also in addition to and alterations in Public School No. 13, on west side of Anderson St., between Pennsylvania and Clifton Aves., Rosebank, Boro. of Richmond; also in addition to and alterations in Public School No. 19, on east side of Greenleaf Ave., between Post Ave. and Floyd St., West New Brighton, Boro. of Richmond.

Bids are asked at the same time for alterations to electric system in Morris High School, 166th St., Boston Road and Jackson Ave., Boro. of the Bronx, and for installing electric elevator in Stuyvesant High School, on 15th St., west of First Ave., Boro. of Manhattan.

*WEST POINT, N. Y.—Bids are asked until noon, Aug. 19, by Maj. J. M. Carson, Q. M., for furnishing iron lamp posts and lamps for electric street lights.

MORRISTOWN, N. J.—The Morris & Somerset Electric Co., which has recently secured the contract for street lighting, is making preparations to commence work on the construction of its plant. The company also has an ordinance before the Aldermen applying for a franchise to furnish electricity to private consumers.

CREIGHTON, PA.—The capacity of the power plant of the Allegheny Valley Street Ry. Co. will be doubled, it is reported, at a cost of $350,000. A. W. Hargett, Tarentum, Pa., is Gen. Supt.

READING, PA.—The RIDGWAY DYNAMO & ENGINE CO., of Ridgway, Pa., has secured the contract for engines for the municipal electric lighting plant, and the WESTERN ELECTRIC CO., 463 West St., New York, N. Y., for the generators. The work is in charge of R. D. Kimball, 6 Beacon St., Boston, Engr.

LEAGUE ISLAND (Philadelphia post-office), PA.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., Aug. 13, to furnish at the navy yard, League Island, Pa., a quantity of naval supplies, as follows: Schedule 151—Incandescent lamps, arc-lamp globes and parts, switches, rubber-covered wire, electrical supplies.

CARNEGIE, PA.—See under Buildings.

EAST PITTSBURG, PA.—The East Pittsburg Borough Council has awarded a contract for street lighting in the borough to the ROSE HILL ELECTRIC LIGHT CO., of Turtle Creek, to run for five years. The contract price is $55 per arc light per year.

WASHINGTON, D. C.—Elliott Woods, Supt. of the U. S. Capitol Building and Grounds, has awarded to the NATIONAL ELECTRICAL SUPPLY CO., 1330 New York Ave., Washington, D. C., the contract for furnishing weather proof and rubber-covered electric wire for the office building, House of Representatives, at their bid for the entire material of $24,338. The only other bidder when bids were opened July 20, the Simplex Electric Co., Boston, Mass., bid on only part of the specifications.

WHEELING, W. VA.—The trustees of the local gas company intend to rebuild the plant, adding modern machinery. Estimated cost, $225,000.

DOUGLAS, GA.—Additions and improvements will be made in the municipal electric light plant, it is reported, and the following new equipment installed: One 500-KW.,

2,200-volt, 2-phase alternator; one 250-HP. Corliss or 4-valve engine; one 100-HP. Cole boiler; one 125-KW., 125-volt, direct-current generator; a 12-in. artesian well and an Ingersoll-Rand air compressor. Line improvements will be made, and a day service will be established about Sept. 1. L. M. Alford is Mgr.

ST. PETERSBURG, FLA.—The St. Petersburg Electric Light & Power Co. will build an addition one story high, 25 × 47 ft., to its electric light plant, in which new dynamo, recently purchased, will be installed. A machine shop 30 ft. will also be provided. H. W. Phillips Mgr., St. Petersburg.

DECATUR, ALA.—The Decatur Light, Power & Water Co. is considering the question of making improvements and extensions to its plant. H. B. Johnson, New Decatur, is Mgr.

CITRONELLE, ALA.—The Citronelle Light & Power Co. has secured franchise to establish an electric light plant. The company proposes to build ice factory also.

EUNICE, LA.—The contract was awarded to P. P. PORTER, of Clinton, Ky., for the construction of a water-works system at Eunice at $26,900. Ira W. Sylvester, Alexandria, is Arch.

HOMER, OHIO.—The Ohio Fuel Supply Co. will begin excavating immediately at Homer for a duplicate natural gas pumping plant. When the new plant is completed the company will have six engines of 1,000 HP. each at Homer and the equipment will be capable of pumping 90,000,000 cu. ft. of gas a day.

FORT BENJAMIN HARRISON, IND.—The contract for installing an electric light system at Fort Benjamin Harrison has been awarded to SANBORN-MARSH ELECTRIC CO., 115 North Illinois St., Indianapolis, Ind., for $35,907.

DECKER, IND.—A dam will be built here across the White River by the Hydro-Electric Co. The company intends to furnish power to cities within a radius of 25 miles. John Gatton and E. H. De Wolf are representatives of the company, Vincennes, Ind.

ELKHART, IND.—THOMAS FOY, Kalamazoo, Mich., has secured a contract to construct a power-house at the new Central Grade School building, at $9,764, and LANE & PYLE CO. the plumbing, at $4,670. The contracts for a heating plant and the electric wiring are yet to be awarded.

PRINCETON, IND.—The Consumers' Gas & Light Co. has purchased a site upon which to erect and equip an artificial gas plant. Estimated cost, $60,000. Bids will be called for after Aug. 5.

LANSING, MICH.—The general contract for the construction of the following buildings for the Lansing Fuel & Gas Company, has been awarded to H. G. CHRISTMAN, 125 South St. Joe St., South Bend, Ind.: Retort house, 34 × 126 ft.; boiler house, 34 × 38 ft.; engine room, 40 × 32 ft.; water gas room, 50 × 32 ft.; condensing room, 42 × 48 ft.; purifying and meter room, 32 × 80 ft. Cost, $125,000. Previously mentioned.

JOLIET, ILL.—The contract for the construction of the hydraulic development of the Economy Light & Power Co., of Joliet, on the Des Plaines River, nine miles from Morris, Ill., has been awarded to JAMES O. HEYWORTH, 49th and Union Sts., Chicago, Ill.

BLOOMINGTON, ILL.—Contracts for constructing an electric light plant have been awarded as follows: Engines, to the BUCKEYE ENGINE CO., Salem, Ohio; generators to the WESTERN ELECTRIC CO., 259 South Clinton St., Chicago, Ill., and lamps to the FORT WAYNE ELECTRIC CO., of Fort Wayne, Ind. Harry E. Rhoades is City Clerk.

KANKAKEE, ILL.—The Kankakee Electric Light Co. is contemplating changing its present arc lighting system to alternating-current series arcs. A. S. Maltman is Mgr.

LADYSMITH, WIS.—The John Hein Co. has decided to erect a power plant and develop 12,000 horse-power at Big Falls, ten miles north on Flambeau River.

NEW HAMPTON, IOWA.—The contract for constructing a power plant for the city has been awarded to SHEPARD & HUTTON, New Hampton, at $8,611.

ROCHESTER, MINN.—Charles L. Pillsbury, Engr., National German-American Bank Bldg., St. Paul, is reported to have completed his report on the requirements of the municipal electric light plant and recommends its entire rebuilding.

DAWSON, MINN.—Plans are being prepared by Oscar Claussen, National German-American Bank Bldg., St. Paul, for an electric light plant and water-works system, to cost about $28,000.

TECUMSEH, NEB.—John Martz, of Seward, is preparing plans, it is reported, for the proposed electric light plant, to cost about $20,000. Frank L. Densmore is City Clerk.

UNIVERSITY PLACE, NEB.—Plans are being prepared by Baker & Early, Lincoln, Neb., for an electric light plant for University Place, to cost about $15,000.

LANDER, WYO.—The Lander Light & Power Co. has decided to expend about $15,000 for improvements. E. Amoreth, Jr., is Mgr.

PINE BLUFF, ARK.—A light and water plant will be erected here by the Pine Bluff Light & Water Co. Plans are being prepared by C. L. Cramp, Engr., representing Ford, Bacon & Davis, 24 Broad St., New York, N. Y.

SAN ANGELO, TEX.—Bids are asked by the San Angelo Gas Co. until Aug. 15 for improving the company's gas plant. A building 30 × 50 ft., 20 ft. high will be erected, which, with equipment, will cost about $50,000. C. L. Metcalfe is Mgr.

SALIDA, COLO.—The Salida Light, Power & Utility Co. is reported to have decided to erect power station and install turbine, dynamo, 6,000 ft. pipe line and 1½ miles of transmission line. B. Denson is Mgr.

ROSWELL, N. MEX.—The Roswell Electric Light Co. is reported to be considering additions and improvements to its plant. Preparations are being made to install the new equipment, which consists of a 250-HP. engine, and a 300-KW., 3-phase, General Electric generator. Luther Stover is Mgr.

SUNNYSIDE, WASH.—T. A. Noble, of North Yakima, has made application for a franchise for an electric light plant and water-works system in this town.

FORT BAKER (Sausalito post-office), CAL.—An electric light and power system at Fort Baker will be installed by R. C. MATTINGLY, of San Francisco, at $38,995.

*SAN FRANCISCO, CAL.—Bids are asked by the Custodian, until noon, Aug. 29, for furnishing and delivering motors, rheostats, chain drives, air compressor, circuit heaters, conduit, wire, etc., at the U. S. post-office and court house, San Francisco.

PASADENA, CAL.—C. C. Glass, Mgr. of the municipal electric light plant, has submitted a report to the Mayor on an underground distributing system, in which he estimates the cost of installing conduits for the electric lighting wires in the fire district, which comprises the business section in general, at $72,744.

RENO, NEV.—The Ely Electric Co. will begin immediately the construction of a 1,000-HP. electric plant and a reservoir in this city. Cave Creek will supply the water for the reservoir. Maj. J. A. Driffill, Oakland, is Pres.

MOUNT AYR, IDAHO.—A. BERTENLANGER, of Omaha, Neb., is reported to have secured the contract for constructing an electric light plant at Mount Ayr, for $17,626.

HAMILTON, ONT.—It is reported that the Hamilton Cataract Power, Light & Traction Co., Hamilton, will construct a third transmission line from Hamilton to De Cew. W. C. Hawkins, Hamilton, is Gen. Mgr.

CHATHAM, ONT.—The City Council of Chatham accepted the bid of the COLONIAL ENGINEERING CO., Montreal, Que., for constructing a new electric light plant. The bid, $13,000, includes both dynamo and producer.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

ORONO, ME.—The Bangor Ry. & Electric Co. has been directed to construct steel bridge across Stillwater River in Orono.

MILLBURY, MASS.—The Selectmen have received plans for constructing concrete bridge to replace wooden bridge over Blackstone River at South Main St. Estimated cost, $4,000.

*RAHWAY, N. J.—Bids are asked until 2.30 p. m., Aug. 7, at the court-house, Elizabeth, for erecting a reinforced concrete bridge over the Robinson Branch of the Rahway River, at Rahway. The bridge is to be 60 ft. long and 46 ft. wide. J. L. Bauer, 215 Broad St., Elizabeth, is County Engr.

SOUTH ORANGE, N. J.—Bids are asked by G. F. Drum, County Engr., until 2 p. m., Aug. 6, for constructing bridge on West Turrell Ave., South Orange.

YORK, PA.—The Wrightsville & York Street Ry. Co. will replace present bridge over Kreutz Creek, near Stony Brook, with structure having 25-ft. span.

SHARON, PA.—The County Commissioners have awarded contract for constructing "V" bridge in Sharon, across Shenango River, to the CANTON BRIDGE CO., of Canton, Ohio. McINTYRE & SONS secured the contract for the stone work. The entire cost of the bridge will be about $75,000.

SCRANTON, PA.—Bids were received July 22 by the Board of Public Works, C. R. Acker, Dir., for constructing bridges on (A), Scranton St., (B), Lackwanna Ave., (C), Cedar Ave., (D), Linden St., and (E) Green Ridge St., as follows: John F. Whittaker, (A), $11,000, (B), $89,670, (D) $11,990, (E), concrete construction, $31,994, (C), $54,984, with extra charge of $14 per cu. yd. for extra construction. Groton Bridge Co.: (A), $11,-800; (B), $87,000; (C), $61,200; (D), $10,700; (E), $38,700. Owego Bridge Co.: (A), $11,-500; (B), $86,500; (C), $63,700; (D), $11,200; (E), $37,250. York Bridge Co.: (A), $10,650; (B), $83,997; (C), $49,000; (D), $9,990; (E), $34,500. McAlvine Co.: (A), $10,500; (B), $90,000; (C), $56,000; (D), $9,800; (E), $38,000. Penn Bridge Co., Beaver Falls, Pa.; (A), $10,-625; (B), $84,987; (C), $80,150; (D), $9,840; (E), $37,100. Floyd Collins Bros.: (C), $53,-998; (E), concrete, $34,420. Nelson Construction Co.: (A), $10,390; (B), $84,200; (C), $53,-900; (D), $9,770; (E), $33,800. Dale & Gaynor, Scranton; (C), concrete, $54,679; (E), concrete, $35,023. James Langan is City Engr.

*WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, Aug. 10, for constructing concrete-steel bridge across track of the Baltimore & Ohio R. R. Co., on line of Monroe St., Brookland, D. C.

ELKINS, W. VA.—The city will construct a bridge at Henry St.

CHARLESTON, W. VA.—The Kanawha Bridge & Terminal Co. has awarded contract for constructing superstructure for railroad, street railway and general traffic bridge over Kanawha River between Charleston and South Charleston to the AMERICAN BRIDGE CO., 42 Broadway, New York. The bridge will afford connection between the Chesapeake & Ohio R. R. on the south side of the Kanawha River and the Kanawha & Michigan Coal & Coke R. R. and Kanawha & West Virginia R. R. on the north side. The bridge company is controlled by the same interests which own the Kanawha Valley Traction Co., and the bridge will be used as a link between this system and the extensions proposed to St. Albans and other points on south side of Kanawha River. An industrial town is being developed at the southern end of the bridge.

TARBORO, N. C.—Bids are asked by J. W. B. Batthe, Chn. Bd. of County Comrs., until Sept. 2, for constructing steel bridge 18 ft. wide, 200 ft. long, with 60-ft. draw, across Tar River, near Tarboro.

AMERICUS, GA.—The Seaboard Air Line Ry. Co. will erect steel or concrete bridges to replace wooden structures at Lee and Barrow Sts. W. L. Seddon, at Portsmouth, Va., is Ch. Engr.

TALLADEGA, ALA.—Bids are asked by the County Commissioners until Aug. 12 for constructing two steel bridges.

ANNISTON, ALA.—Bids are asked until August term of Commissioners' Court for building bridge over Coldwater Creek. W. F. Hanna is Pres.

GREENWOOD, MISS.—Bids are asked until Aug. 5 by C. W. Crockett, County Clk., for constructing bench bridge 63 ft. long on Dalmer's Pl.

SENATOBIA, MISS.—Bids are asked until Aug. 5 by the Board of County Supervisors, J. A. Wooten, Clk., at Senatobia, for constructing steel bridge across Coldwater River, known as the Love Bridge.

FRANKLINTON, LA.—Bids are asked Aug. 2 by the Police Jury for constructing three steel bridges, at Warnerton and at Isabel, on Bogue Chitto River and at Bogalusa on Bogalusa Creek.

SHREVEPORT, LA.—Plans are being prepared by Iva G. Hedrick, of Kansas City, Mo., for constructing bridge across Red River at Shreveport. Estimated cost, $200,-000. P. B. Hill, of Benton, La., is Clk. of Police Jury of Bosier Parish.

NASHVILLE, TENN.—The Davidson County Bridge Committee, James K. Raines, Chn., has awarded contract to FOSTER & CREIGHTON, at $450,000, to build concrete retaining walls, concrete viaduct approaches and piers of two bridges to be constructed over Cumberland River, and to A. R. STEWART, at $50,000, for earth-filling work for approaches of both bridges. Cost of both structures when completed will be about $1,000,000. Contracts are conditioned on the sale of $800,000 of bridge bonds. Howard M. Jones is Engr.

DELAWARE, OHIO.—The County Commissioners have let contract to IRWIN BROS., of Sunbury, for constructing substructure of stone bridge, the CAPITOL CONSTRUCTION CO., of Columbus, Ohio, securing contract for constructing the superstructure. A. B. SHAW secured the contract for masonry work for substructure of Berkshire bridge. L. L. DENISON secured the contracts for constructing superstructure of Berkshire bridge and for constructing the Gregg Mill bridge.

AKRON, OHIO.—The County Commissioners have let contract for constructing culvert at the Decker school house in Franklin Township, to W. H. KLINE. The BERGEN IRON CO. has received the contract for constructing cover to bridge in Franklin Township. The BROOKLYN BRIDGE CO. secured the contract for flooring the bridge at Miksch's Mills, in northern part of the county.

MOUNT GILEAD, OHIO.—Bids are asked by the County Commissioners until Aug. 15 for construction of superstructure and substructure for steel bridge over Whetstone Creek, Westfield Township. W. C. MacFarland is County Audr.

CLEVELAND, OHIO.—Bids are asked by A. R. Callow, Secy. Bd. Pub. Service, until noon, Aug. 6, for constructing reinforced concrete culvert at Giddings Brook, under East Boulevard. W. J. Carter is City Engr.

CARROLLTON, OHIO.—Bids are asked until Aug. 5 by N. L. Marshall, County Audr., for constructing iron bridge 50 ft. long over Conotton Creek.

PORTSMOUTH, OHIO.—The County Commissioners have let contracts to the COLUMBUS BRIDGE & IRON CO., for constructing bridge across Pond Run, ten miles below Portsmouth, and bridge across Pine Creek, at Clinton Furnace, for $1,975 and $1,175, respectively.

ZANESVILLE, OHIO.—Bids are asked by the County Commissioners until noon Aug. 8, for erection of bridge over Flat Run in Wayne Township. Bridge is to consist of one span 80 ft. long, with roadway 18 ft. wide. L. E. Brelsford is County Audr.

NEW LEXINGTON, OHIO.—Bids are asked by Geo. T. Drake, County Audr., until noon, Aug. 6, for construction of bridge over Rush Creek at Main St., New Lexington.

CINCINNATI, OHIO.—Bids are asked by the County Commissioners, Fred. Dreihs, Clk., until noon, Aug. 16, for repairing culverts on Whiskey Run Road, about ½ mile west of Winton Road, Springfield Township.

FINDLAY, OHIO.—Bids are asked by the County Commisisoners until Aug. 3, for construction of steel bridge over Blanchard River.

SHELBYVILLE, IND.—Bids are asked by the County Commissioners until 10 a. m., Aug. 6, for constructing 75-ft. span reinforced concrete arch bridge across Sugar Creek in Moree Township. Thomas Hawkins is County Audr.

PRINCETON, IND.—The County Commissioners have ordered plans prepared for constructing iron bridge over Patoka River, to be known as the Severn bridge.

LEBANON, IND.—Bids are asked by the County Commissioners until 10 a. m., Aug. 5, for construction and repair of twelve bridges.

PERU, IND.—Bids are asked by the County Commissioners until noon, Aug. 7, for construction of bridges across Big Pipe Creek.

NOBLESVILLE, IND.—Bids are asked by the County Commissioners until Aug. 5, for repair of Cool Creek bridge and Levi bridge, and for construction of retaining wall at Ohio River bridge in Noblesville.

WARSAW, IND.—Bids are asked by the County Commissioners until 10 a. m., Aug. 7, for construction of four steel bridges and seven pairs of abutments.

BLUFFTON, IND.—Bids are asked by the County Commissioners until 1 p. m., Aug. 5, for construction of nine bridges.

INDIANAPOLIS, IND.—The County Commissioners, B. O. Hendricks, Secy., have awarded contract for constructing concrete bridges in Garfield, Brookside and Slades Parks to HILLIS F. HACKENDORN & CO., of Indianapolis, for $16,000.

TIPTON, IND.—Bids are asked by the County Commissioners until 2 p. m., Aug. 5, for construction of abutment and extension of South Main St. bridge.

*CHICAGO, ILL.—Bids are asked by the Department of Public Works, John J. Hanberg, Comr., until 11 a. m., Aug. 17, for erecting substructure and superstructure of drawbridge over west arm of south fork of south branch of Chicago River at South Ashland Ave.

FT. SNELLING, MINN.—Col. J. B. Quinn, U. S. A., Corps Engrs., at St. Paul, Minn., has received bids for constructing steel and concrete bridge, as follows: Minneapolis Steel & Machinery Co., 28th and Minnehaha Sts., Minneapolis, Minn., $217,145; Midland Bridge Co., $224,000; F. J. Romer & Son, $230,000; Bayne & Hewitt, $230,000, and the Penn Bridge Co., Beaver Falls, Pa., $249,000.

ATCHISON, KAN.—The contract for constructing stone bridge has been awarded to JOHN McGUIRE, of Leavenworth, Kan.

ATCHISON, KAN.—Bids are asked until Aug. 6 by the Board of County Commissioners, J. C. Hotham, Chn., for constructing 120-ft. steel bridge on concrete foundation, on line between Atchison and Jefferson Counties; also 20-ft steel bridge on concrete foundations in Mt. Pleasant Township. L. S. Hereford is County Engr.

NEWTON, KAN.—Bids are asked by B. O. Hazen, County Clk., until Aug. 5, for constructing pile bridges.

WYNCOTE, WYO.—See under Water Supply—Irrigation.

PERRY, OKLA.—Bids are asked by J. E. Dolezal, County Clk., until 6 p. m., Aug. 3, for constructing five steel bridges.

CARLOTTA, CAL.—Bids are asked by Geo. W. Cousins, Clk. Bd. of Supervs., until 10 a. m., Aug. 11, for constructing protective work at Yager Creek bridge at Carlotta.

SANTA ROSA, CAL.—Bids are asked by the Board of County Supervisors until 2 p. m., Aug. 5, for repairing Lambert bridge over Dry Creek. F. L. Wright is County Clk.

STOCKTON, CAL.—C. G. SHEELY has been awarded the contract for constructing two bridges across Morman Channel, at $5,414 and $6,296.

REDDING, CAL.—The Board of Supervisors has let contract for constructing steel bridge across Sacramento River, at Redding, to the BURRELL BRIDGE & CONSTRUCTION CO., for $35,970.

OGDEN, UTAH.—The City Council has decicded to construct a temporary bridge across west channel of Ogden River, near the Ogden Canyon sanitarium. A. F. Parker is City Engr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

QUINCY, MASS.—Bids are asked until 3 p. m., Sept. 4, by James Knox Taylor, Supervy. Arch., Washington, D. C., for construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office and custom-house at Quincy.

NEW YORK, N. Y.—The following bids were received on July 26, by J. A. Bensel, Comr. of Docks, for constructing freight sheds on Piers Nos. 54 and 56, North River, between the foot of Little West Twelfth and West 14th Sts., on the Chelsea Section, with lateral extensions on the adjacent bulkhead platforms: Snare & Triest Co., 147 Liberty St., $1,132,580; R. P. & J. H. Staats, $1,219,-000; Post & McCord, 44 East 23d St., $1,-154,000; G. B. Spearin, West Bldg., $1,-240,167.

Maximilian Zipkes, Arch., 147 Fourth Ave., has drawn plans for a 12-story apartment house to be erected on the premises 7 and 9 West 39th St., 50 × 100 ft., by the Fleischman Realty Co. It will cost $300,000.

NEW YORK, N. Y.—Plans have been filed with the Building Superintendent for modernizing and refitting the three 5-story buildings at 9, 11, 13 and 15 Park Pl., running through the block to 8, 10 and 12 Murray St., and owned by the American News Co. The building at No. 13 will be replaced by a 5-story structure, and an elevator plant will be installed. The improvements are to cost $150,000, according to the estimate of Jay Kellogg.

The following bids were received on July 25 by the Park Board for erection of a new continuous skylight in the main roof of the east wing, the enlargement of the three dome lights over the Hall of Sculpture and the alteration of the cornice in the south gallery on the second floor of said east wing of the Metropolitan Museum of Art, located in Central Park, on the west side of Fifth Ave., opposite 82d St.: Thomas Dwyer, Amsterdam Ave. and 139th St., (a) $38,889, (b) $5,555; M. Reid & Co., 114 West 39th St., (a) $35,489, (b) $4,485; Buckley Realty & Construction Co., 156 Fifth Ave., (a) $39,050, (b) $5,950; Neptune B. Smyth, 1123 Broadway, (a) $32,700, (b) $4,900.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 3 p. m., Aug. 12, for completing and finishing the heating and ventilating apparatus for additions to and alterations in Public School No. 109, on the southerly side of Dumont Ave., between Sackman and Powell Sts., Boro. of Brooklyn; in new Public School No. 149, on Sutter Ave., between Vermont and Wyona Aves., Boro. of Brooklyn; in new Public School No. 151, on northerly side of Knickerbocker Ave., between Halsey and Weirfield Sts., Boro. of Brooklyn, in accordance with

the orginal plans and specifications of contracts awarded to Rossman & Bracken Co., which have been declared abandoned.

*WEST POINT, N. Y.—Bids are asked until noon, Aug. 10, by Maj. J. M. Carson, Q. M., West Point, for installing reinforcing for girder under south wall of library tower, West Point.

UTICA, N. Y.—Plans are being prepared by Barnett, Haynes & Barnett, Frisco Bldg., St. Louis, Mo., for a 3-story, $300,000 convent at Utica.

WATERTOWN, N. Y.—Bids are asked until 3 p. m., Sept. 3, by James Knox Taylor, Superv. Arch., Washington, D. C., for construction (complete) of the U. S. post-office at Watertown, N. Y.

PITTSBURG, PA.—The Henry W. Oliver estate, Wood St. and Oliver Ave., is having preliminary plans made for an 8-story mercantile building near Liberty and Oliver Aves. Cost, $200,000. Henry L. Wass is Mgr. of estate.

PHILADELPHIA, PA.—Bids are asked until 10 a. m., Aug. 15, by Col. F. L. Denny, Q. M., for the construction of an addition to the Philadelphia Depot, 1100 South Broad St., Philadelphia.

THOMAS M. SEEDS, JR., 1207 Race St., Philadelphia, has the contract for the alterations and additions to the Art Club. The work includes some interior changes, and the addition of three stories to the present back building, making it six stories high. The work will cost about $125,000.

CARNEGIE, PA.—DUSHANE & LEWIS, of this city, have been awarded the contract for the construction of a theater and amusement arcade, to be built on Main St., at a cost of $100,000. THOMAS PROSSER, also of this town, has the contract for the excavations. The building will be 68 × 92 ft., three stories in height, of pressed brick and stone, and will have a private electric light and heating plant.

*WASHINGTON, D. C.—Bids are asked until noon, Aug. 14, by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, Washington, for two passenger elevators.

The New York "Tribune" states that the plans for the establishment of an army general hospital and medical station in the District of Columbia, beyond the Soldiers' Home, have been completed. A hospital building is under construction now, and is expected to be finished in about six months. It is intended to remove to this place the army medical school, which is now accommodated in the Medical Museum on the Smithsonian reservation. There will be established two companies of the hospital corps for the purpose of instruction and demonstration. There will be a post-graduate school for the benefit of the newly appointed assistant surgeons, and for older officers who desire to take up some special study. This general hospital will consist of about 100 buildings. Maj. William H. Arthur is to be Surgeon Commandant.

JACKSONVILLE, FLA.—W. P. RICHARDSON & CO. have contract, and have begun grading preparatory to erection of proposed warehouses and office buildings for Atlantic & East Coast Terminal Co. Contract calls for construction of two freight warehouses, each 750 × 51 ft., and three combined office and warehouse buildings, 51 × 105 ft., 51 × 265 ft. and 25 × 191 ft., respectively. Total cost, about $160,000. Structures will be of brick, with cement-face bricks and tile roofs; warehouse doors of rolled steel. J. W. Richardson is Engr.-in-Charge. Warehouses will be used as local freight warehouses by the Florida East Coast Ry. and the Atlantic Coast Line. In connection with these improvements it is also proposed to pave portion of Forsyth St. with brick.

KNOXVILLE, TENN.—James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., has awarded to GEORGE MOORE'S SONS, Nashville, Tenn., contract for the construction of an addition to the post office building at Knoxville, Tenn., at $132,560. Bids were opened on July 10.

MEMPHIS, TENN.—Hanker & Cairnes, Archs., Scimitar Bldg., have plans prepared for an apartment house, at Central Ave. and Belvidere Boulevard, for the Belvidere Improvement Co., H. W. Brennan, promoter, 45 Southern Express Bldg. Building to be seven stories high, of brick and stone, and will contain 300 rooms, also roof garden. Cost, $250,000.

CLEVELAND, OHIO.—The contract for the mercantile building at 29 and 31 East 22d St. for the Brunswick Realty Co. has been awarded to FERDINAND GEHLKER, 24 East 21st St. Frederick C. Zobel, 114-116 East 28th St., is Arch. Cost, $250,000.

The contract for a store and office building has been awarded to the TIDEWATER BUILDING CO., 25 West 26th St. Plans were prepared by Henry Bacon, Arch., 160 Fifth Ave. Cost, $1,000,000.

EATON, OHIO.—WILLIAM F. STILLWELL, La Fayette, Ind., has been awarded a contract for the erection of a memorial building at Eaton, to cost $200,000.

EVANSVILLE, IND.—D. H. Burnham & Co., Archs., Railway Exchange Bldg., Chicago, have awarded plumbing and steam heating contracts to H. G. NEWMAN, Evansville, for a railroad station for the Evansville & Terre Haute R. R. Co., Evansville. Estimated cost, $175,000. J. W. Hunter, Evansville, is Div. Engr.

INDIANAPOLIS, IND.—The Sisters of St. Agnes have ordered plans for the erection of an Academy on the corner of Meridian and 14th Sts. The building will be of brick and stone, 100 × 148 ft., three stories high. Estimated cost, $250,000. Bids will be in order as soon as plans are completed by D. A. Bohlen & Son, Archs., Majestic Bldg.

The Henry C. Brubaker Co., Etna Bldg., has plans ready for bids for a 10-story bank and office building, 67 × 78 ft., for Samuel Richcreek, to cost $200,000.

CHICAGO, ILL.—Huehl & Schmid, Metropolitan Block, 163 Randolph St., have let the following contracts for building a loft building at Randolph and Jefferson Sts., for Ruprecht, 79 West Randolph St.: Masonry to J. W. SNYDER, 160 Washington St.; plumbing to JACOB G. WEBER, 244 North Clark St.; painting to FRED. ROJAHN, 729 West Madison St.; plastering to McNULTY BROS., 7 Jackson Boulevard; Iron work to HOLMES, PYOTT & CO., 13 North Jefferson St.; concrete work to the R. S. BLOME CO., 79 Dearborn St.; terra cotta work to the NORTHWESTERN TERRA COTTA CO., 1000 Clybourn Ave., and the roofing to M. W. POWELL CO., 204 Dearborn St. It is to be 7-story, 100 × 100 ft., of reinforced concrete construction, have pressed brick, terra cotta, iron and plate glass front, composition roof, and is estimated to cost $175,000.

L. G. Hallberg, Arch., Oxford Bldg., 84 La Salle St., has let the mason contract to J. W. SNYDER, 160 Washington St., for a warehouse to be built at 1532 to 1538 Wabash Ave. for the Republic Metalware Co., 23 Randolph St. It will have six stories and basement, 65 × 170 ft., of reinforced concrete and brick construction, have pressed brick front, concrete and maple floors, steam heat, and cost about $125,000.

PEORIA, ILL.—The plans and specifications for the large warehouse of the Bull Bros. Co., to be erected at the corner of Water and Jefferson Sts., have been completed, and the contractors are figuring on the building. The building will be 80 × 124 ft., and will be practically five stories in height, the structure showing four stories and a half basement on the Water St. front, and on the river will be full five stories high. Paving brick will be used for the basement and first floor, and the top three stories to be of the best cream brick.

LA CROSSE, WIS.—The Legislature has appropriated $200,000 for a state normal school, to be erected here. Van Ruyn & De Gelleke, Archs., Milwaukee, are working on the plans.

DULUTH, MINN.—CHAS. J. LANTRY, of Kansas City, Mo., has secured the contract to construct the terminals in this city for the Wisconsin Terminal Co. Probable cost, $500,000. D. A. Reed, Lyceum Bldg., is Engr.-in-Charge.

FORT D. A. RUSSEL, WYO.—ATCHINSON BROS., of Colorado Springs, Colo., have the contract at $113,997 for construction of a hospital at Fort D. A. Russel. The heating will be done by JOHNSON-ROWE-DAILY CO., of Omaha, at $3,085.

*BUTTE, MONT.—Link & Hair, Archs., have let general contract for a brick and stone bank building for the State Savings Bank, to A. R. WHITNEY, JR., CO., 135 Broadway, New York, at $270,000.

ST. LOUIS, MO.—An 18-story office building will be erected by the McNair & Harris Realty Co., Eighth and Locust Sts., St. Louis, at the corner of Broadway and Pine St. The building will have a frontage of 86 ft. on Broadway by 127 ft. on Pine St. A glazed white terra cotta exterior will rise from a base of polished granite. The estimated cost is $800,000. Mauran, Russell & Garden, Chemical Bldg., are Archs.

Arthur C. Dingelstedt and associates will erect on Delmar and Taylor Aves. a building to contain a roof theater, roof garden, roller rink, riding academy, natatorium, cafe and several stores. The building is to cost $300,000. The site fronts 418 ft. on Taylor Ave., extending from Delmar Ave. to Morgan St., and has a frontage of 142 ft. on Delmar Ave. and Morgan St.

A building permit has been issued to the Board of Education for a 5-story warehouse on School St., in the rear of the Central High School on Grand Ave. The building will cost $109,000. It will be of reinforced concrete and fireproof. The exterior and interior will be plain. It will be equipped with elevators. The building is to be L-shaped, 171 × 155 × 136 × 145 ft. It will contain a workshop and a bookbindery. William B. Ittner is Comr. of Education.

FORT WORTH, TEX.—Winfield Scott will erect hotel, four stories high, of brick, with 125 rooms, half of which will have baths in connection, gas heat, electric and gas lights. The lobby is to have tile flooring and marble wainscoting. Cost, $140,000.

SPOKANE, WASH.—Plans have been prepared for a new building, 15 × 80 ft., to be erected for the Spokane & Eastern Trust Co. Cost, $150,000.

PULLMAN, WASH.—Bids are asked until Aug. 10, by the State Board of Control, Olympia, for constructing a recitation building for the State College at Pullman, as authorized by the Legislature. Estimated cost, $125,000.

SAN FRANCISCO, CAL. — Construction work on the Coleson Building, at the corner of Stockton and Geary Sts., is about to begin. The building will have frontage on both streets, 92.6 ft. on Geary and 58.6 ft. on Stockton. The foundations are of concrete. The walls are to be brick, and the building will be fireproof. The owner is the Coleson Co. The cost will be about $125,000.

The Y. M. C. A., of this city, has purchased a lot at the corner of Golden Gate Ave. and Leavenworth St., and will erect a Class A building there. Work will begin as soon as the necessary arrangements can be made. The building will occupy all of the ground, and will be eight or nine stories in height. H. J. McCoy is Gen. Secy.

A building is being planned by John C. Pelton, Arch., 1767 Geary St., for J. M. Rothchild, which will adjoin the Newman & Levinson building, on Geary St., 137 ft. west of Stockton St. It will be a 6-story Class A structure, covering a lot 55 × 137.6. Plate glass will be used in lighting the first and second floors. The facade up to the three lower stories will be of cream colored terra cotta, and in the floors above buff Roman brick will be used.

SAN FRANCISCO, CAL.—The Holmes Investment Co. has made application to erect a Class A building on the north side of Post St., 60 ft. east of Kearny St. The estimated cost is $275,000.

Application has been made by D. O. Mills for a permit to erect a 10-story office building of steel and concrete construction adjoining the Mills building in Bush St., near Montgomery St., at a cost of $340,000.

Plans have been prepared by Oliver & Foulker, 904 Rialto Bldg., for a 6-story apartment hotel, to be erected at Washington and Hyde Sts. for the Keystone Realty Co. Cost, $350,000.

SAN FRANCISCO, CAL.—See under Light and Power Plants.

MONTREAL, QUE.—The Board of Directors of the Y. M. C. A. has awarded the contract for erecting the new building to PETER LYALL & SONS, 88 King St., Montreal, at $217,500.

Plans have been completed for the construction of the new engineering building at McGill University, to take the place of the one destroyed by fire in April. The building permit was granted to the McGill authorities recently. The structure will be fireproof, and it is estimated that the cost will be about $275,000. Percy E. Nobbs, Professor of Architecture at the university, is Arch., and the contractors are BYERS & ANGLIN. Construction will be started just as soon as the necessary materials can be obtained. The new engineering building will be larger than the one destroyed.

WATER SUPPLY—IRRIGATION.

BURLINGTON, VT.—We are officially advised that the following bids were received July 22 by the Filtration Commission, J. W. Goodell, Secy., for constructing mechanical filter plant, with (A), steam operated machinery; (B), electrically operated machinery: LEY CONSTRUCTION CO., (B) $36,729 (awarded contract), (A) $37,109; Greer Filter Co., (A) $38,429, (B) $38,029; Norwood Engine Co., (A) $40,272, (B) $38,772; New York Continental Jewell Filtration Co., 15 Broad St., New York, (A) $40,189, (B) $39,889; Union Filter Co., (A) $42,771, (B) $43,471. The work includes a covered reinforced concrete coagulating basin of about 250,000 gallons capacity; four concrete filter tanks, each of a net area of filtering surface of 200 sq. ft.; a clear water basin beneath the filters having capacity of about 100,000 gallons, together with all appurtenances and piping connections to the neighboring water pumping station, low lift centrifugal pumps, wash water pumps, etc. Itemized bids will be given next week under Contract Prices. Hering & Fuller, 170 Broadway, New York, are Engrs.

GLOUCESTER, MASS.—A 10,000,000-gal. reservoir has been recommended by the Committee on Fire Prevention of the National Board of Fire Underwriters, 135 William St., New York. The committee also recommends that all cement-lined pipe be replaced by cast-iron.

NEW YORK, N. Y.—The following bids were received July 22 by the Department of Education for laying water main, etc., to building for Parental School, on westerly side of road between Flushing and Jamaica, about 1,700 ft. south of North Hempstead Turnpike, Flushing, Boro. of Queens; Christopher Nally, 2384 Broadway, New York, Item 1, $9,764; Item 2, $12,264. John Spence, Jr., 131 East 18th St., New York, Item 1, $7,700. John J. Young, Long Island City, $12,046; $19,120. Pease Bros., 277 Broadway, New York, $5,800; $8,200. Sullivan Bros., Brooklyn, $5,995; $8,625. James F. Touhy, Jamaica, L. I., $8,998; $11,711.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas and Electricity, John H. O'Brien, Comr., until 2 p. m., Aug. 14, for furnishing and delivering repair and renewal supplies for pumping stations.

IRVINGTON, N. Y.—We are officially advised that the Board of Water Commissioners has let contract for furnishing and laying about 3,000 ft. c-i. water pipe to THOMAS O'HEARN, of Yonkers, N. Y.

BRACKENRIDGE, PA.—The residents of Tarentum, Brackenridge and Natrona have been agitating the question of pure water for several months, and the matter is now about closed. A mechanical filtration plant will be constructed by the Tarentum Water Co., on Stieren St., Brackenridge, the contract for which has been awarded to the ROBERTS MANUFACTURING CO., for $50,000, to be completed in 100 days under heavy forfeiture clause.

SHELBY, N. C.—A water-works and sewerage system will be installed. Plans and specifications are being prepared by Hazen & Whipple, 220 Broadway, New York. Estimated cost, $100,000. R. J. Shields is Clk. of Water Bd.

WINDER, GA.—Plans and specifications for constructing water-works system have been completed. Estimated cost, $25,000.

HOMER, LA.—Bids will soon be asked for constructing water-works system. Estimated cost, $35,000. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs.

HOWELL, TENN.—A water-works system may be installed.

ETOWAH, TENN.—The Louisville Property Co. has purchased 350 acres of additional land north of Etowah containing natural basin or valley in the mountains ½ mile long and 600 ft. wide, which will be converted into reservoir. Surveys have already been made. Dam will be 557 ft. long, 160 ft. wide at bottom, sloping to 10 ft. wide at top and 135 ft. high. It is estimated to hold when completed over 1,000,000 barrels of water, which will be used to supply the town.

*LOUISVILLE, KY.—Bids are asked by the Louisville Water Co., by S. Zorn, Pres. Bd. Water Wks., until noon, Sept. 8, for supplying the following: (A), Compound beam and fly-wheel pumping engine, Leavitt type, 16,000,000 gallons capacity per 24 hrs. (B), Compound beam and fly-wheel pumping-engine, Leavitt type, 20,000,000 gallons capacity per 24 hrs. (C), Vertical triple-expansion crank and fly-wheel pumping-engine, 24,000,000 gallons capacity per 24 hrs. (D), Two horizontal firebox tubular Belpaire boilers. (E), Vertical triple-expansion crank and fly-wheel pumping-engine, 24,000,000 or 30,000,000 gallons capacity per 24 hrs., for the Crescent Hill Pumping Sta[illegible] (F), One battery of two boilers simil[illegible] to those now in use at the Crescent Hill P[illegible] pping Station. Joseph P. Claybrook is City [illegible]gr.

CARLISLE, KY.—A wate[illegible] works system may be installed.

YOUNGSTOWN, OHIO.—B[illegible] are asked by the Board of Public Service, H. McMillin, Clk., until noon, Aug. 2, for [illegible]uailing about 400 tons of c-i. water pipe.

ISHPEMING, MICH.—Wa[illegible] mains will be laid and pump house [illegible]pped. Cost, $55,000. John D. West is Cit[illegible] recorder.

THAYER, ILL.—Bids are [illegible]d until 5 p. m., Aug. 5, for laying 4-in[illegible]e with hydrants, etc. H. Millhouse is [illegible]ge Clk.

BAYFIELD, WIS.—The W[illegible] and Light Commission has awarded co[illegible]t to JOHN B. WANLESS, of Duluth, M[illegible] for laying intake pipe for the water su[illegible]

VIOLA, WIS.—The NAT[illegible]AL CONSTRUCTION CO., of South [illegible]d, Ind. has been awarded contract for [illegible]constructing water-works system.

AURORA, MINN.—The co[illegible]t for constructing water-works has b[illegible]et to PASTOREL & LUNZ, at $4,485.

ST. PAUL, MINN.—No bid[illegible]re been received by Col. J. B. Quinn, [illegible] A. Corps Engrs., for constructing the S[illegible] Lake reservoir dam. Bids will soon be [illegible]dvertised. Estimated cost, $75,000.

KENYON, MINN.—Plans and specifications for constructing water tank and towers are being prepared by W. C. Fra[illegible], of Rochester, Minn.

ALMENA, KAN.—Plans and specifications for constructing water-works are being prepared by Burns & McDonnell, Twight Bldg., Kansas City, Mo.

EXETER, NEB.—Bids will soon be asked for constructing water-works, including deep well. Burns & McDonnell, Twight Bldg., Kansas City, Mo., are Engrs.

OXFORD, NEB.—A. M. Earl & Co., of Muskogee, I. T., are preparing plans and specifications for constructing water system.

BELLE FOURCHE, S. DAK.—Contract has been awarded to HARLEY SHEVLING, of Belle Fourche, S. Dak., for construction of three miles of lateral ditches and structures, Belle Fourche Irrigation Project, S. Dak., for $8,795. GEORGE A. LANE, of Sanoma, S. Dak., has secured the contract for construction of ten miles of lateral ditches and structures at $7,000.

WYNCOTE, WYO.—The Secretary of the Interior has let the following contracts in connection with the Interstate Canal, North Platte Irrigation Project, Wyo.-Neb.: BYAL & CO., of Mitchell, Neb., constructing siphon, culverts and sluiceways, $31,455, and lateral headworks, $9,398. The OMAHA BRIDGE CO., of Omaha, Neb., constructing steel truss highway bridges, $16,915, and wooden highway bridges, $11,112. The EXPANDED METAL & CORRUGATED BAR CO., of St. Louis, Mo., furnishing structural and reinforcing steel, $6,475. The COLORADO GREY IRON FOUNDRY CO., of Denver, Colo., furnishing lifting devices, gates, etc., $9,620.

DOUGLAS, WYO.—Bids are being received by the La Prele Reservoir & Ditch Co., of Douglas, for constructing masonry dam 125 ft. high for the storage of water to supply the company's irrigation canals. Dr. J. M. Wilson, of Douglas, is Treas. E. L. Heser is Asst. Engr.

ARKANSAS CITY, ARK.—Bids are asked by the County Court, W. E. Meeks, Clk., until Aug. 5, for constructing drains in Drainage District No. 1.

PIGGOTT, ARK.—The St. Francis Drainage Board, W. B. Miller, Marked Tree, Ark. Pres., has awarded contract to WILLS BROS. CO. at 10.44 cts. per cu. yd. for construction of drainage canal, 31½ miles long.

MARLIN, TEX.—City has awarded contract to J. REILY, Goliad, Tex., for construction of lake and dam for water-works extension, plans for which have been prepared by R. S. Hunnicutt. Dam will be 29 ft. deep and 900 ft. long, containing about 20,000 cu. yds. Water line of lake will cover about 42 acres. E. P. Hutchings is City Secy.

FT. BLISS (El Paso post-office), TEX.—A. M. DILLON & CO. has been awarded contract at $5,140 for construction of a deep well at Fort Bliss, and for strainer at $[illegible]. The DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, will construct shelter for $2,700; furnish pumps and boilers for $7,420 and tank and trestle for $16,000.

SAYRE, OKLA.—We are officially advised that contract for constructing 50,000-gallon tank and tower has been let to the SOUTHWESTERN BRIDGE CO., Joplin, Mo.

DURAND, IND. T.—A water-works system will be installed. Estimated cost, $35,000.

COQUILLE, ORE.—Bids will soon be asked for constructing ditch 1¼ miles long and 30 ft. wide, with six laterals, in connection with the Bandon Irrigation Project. The officers of the association are: C. R. Gabler, Pres. Ed. Johnson, Vice-Pres., and J. W. West, Secy.

TWIN FALLS, IDAHO.—The Cedar Creek Project will be constructed by the Cedar Creek Reservoir & Irrigation Co. It is situated in the Twin Falls district. The plan is to construct a dam at head of Cedar Creek Canyon at a height of 130 ft., impounding water in the Cedar Creek Basin. Nearly 1,850 acres will be flooded. The main canal will be 21 miles long, main laterals 45 miles, and sub-laterals will cover 210 miles. Chas. J. Perkins is Gen. Mgr.

BOISE BARRACKS (Boise post-office), IDAHO.—SAMUEL T. DAVIS, of Boise, has been awarded contract for constructing water distribution system, consisting of 6,000 ft. of 4-in. c-i. pipe and connections, for $10,660.

*HALIFAX, N. S.—Bids are asked until noon, Aug. 13, for supplying 2,000 4-in. and 100 ¾-in. water meters. J. J. Hopewell is Clk. of Wks.

MANILA, P. I.—See under U. S. Possessions and Cuba.

SEWERAGE.

*MILFORD, MASS.—Bids are asked by James E. [illegible]er, Chn. of Com., until 8 p. m., Aug. 6 to 12-in. [illegible]er (A), constructing 7,000 ft. concrete [illegible]vers, 800 ft. 8-in. force main, station; [illegible]well and concrete pumping pipe; (C[illegible] furnishing 800 ft. 8-in. c-i. pumping [illegible]nishing and erecting electric recely co[illegible] consisting of motors and di- Barbour. [illegible]n, Mass., is Engr.

NORW[illegible] CONN.—The following bids have be[illegible]ved for constructing sewers: A. M. C[illegible]K, 95 Milk St., Boston, Mass., $21,888 [illegible]d contract); Cowan Contract- ing Co., [illegible]on, Mass., $25,279; John Fan- zilli, Sou[illegible]Norwalk, $26,699; E. Chappa, Sungatuc[illegible]9,998; Michael Spino, Fishkill Landing, [illegible]$20,048; O'Rouke Co., Bos- ton, Mas[illegible]0,804; The Boston & New York Construc[illegible]Co., Boston, Mass., $33,474. The work co[illegible]of 20 lin. ft. 30-in. brick sewer, 1,404 lin. [illegible]30-in., 468 lin. ft. 18-in., 3,118 lin. ft. [illegible]4,628 lin. ft. 12-in. and 3,020 lin. ft. [illegible]stoneware pipe sewer, 75 man- holes, [illegible]catch basins, 414 6-in. branches [illegible]450 cu. yds. solid rock excava- tion.

HARTFORD, CONN.—The Board of Contract and Supply has let contract for constructing Ann St. sewer to the HARTFORD PAVING & CONSTRUCTION CO., for $17,- 391. Fred L. Ford is City Engr.

ONEIDA, N. Y.—Bids are asked until Aug. 6 for constructing sewer on Lenox Ave., 780 ft. in length. T. A. Dapson is Deputy City Clk.

BINGHAMTON, N. Y.—A recommendation has been received by the City Council from the Board of Health for constructing sewer on Pleasant St., Pleasant Ave. and Truesdell St., to connect with the Chenango St. sewer. S. M. Baird is City Engr.

NORTH TONAWANDA, N. Y.—A. P. Smith, City Engr., has been directed to prepare plans and specifications for constructing sewer system east of Division St. Estimated cost, $100,000.

NEW YORK, N. Y.—Bids are asked by Henry S. Thompson, Acting Pres. Boro. of Manhattan, until 2 p. m., Aug. 6, for constructing sewers, etc., in various streets, Boro. of Manhattan.

NEW YORK, N. Y.—Bids are asked by Henry S. Thompson, Acting Pres. Boro. of Manhattan and Comr. of Public Works, until 2 p. m., Aug. 12, for reconstruction of outlet sewers and appurtenances, overflows and connections, at 42d and 43d Sts., North River, and in 42d and 43d Sts., between North River and Eleventh Ave.

HIGHLAND FALLS, N. Y.—Plans and specifications for constructing sewerage system are being prepared by Knight & Hopkins, of Rome, N. Y.

*RIVERSIDE, N. J.—Bids are asked by Irven Kollo, Township Clk., until 8 p. m., Aug. 19, for constructing sewerage system. The work consists of laying about ten miles of 8 to 24-in. sewers, pump house, engines, pumps, pump well and disposal works. Wm. H. Boardman is Engr.

TRENTON, N. J.—Bids are asked until Aug. 6 by the Common Council, H. Slater, Clk., for constructing sewer in portions of Stuyvesant, Parkside and Hillcrest Aves.; also drain in portion of Princeton Ave. Abram Swan, Jr., is City Engr.

ORANGE, N. J.—Bids are asked until Aug. 5 by Willet B. Gano, City Clk., for constructing 1,100 ft. timber flume in East Branch of Rahway River; also 375 ft. 15-in. storm sewer in Bell St. F. F. Crane is City Engr.

PHILLIPSBURG, N. J.—Bids are asked by Jordan Shafer, Chn. Sewer Com., until 7.30 p. m., Aug. 5, for constructing concrete storm sewer.

*ASBURY PARK, N. J.—Bids are asked by the Department of Water and Sewers, John L. Coffin, Supt., until noon, Aug. 17, for constructing about ten miles of 6 to 15-in. pipe sewers, with manholes, flush-tanks, etc. Bids are also asked for constructing 1,200 ft. 12-in. w.-i. sewer outlet pipe, extending seaward from tide mark. Niart Rogers is City Engr.

CRESSON, PA.—R. D. MALONE, of Hollidaysburg, has been awarded contract for constructing sewers, at $5,645. J. B. Rowlson is City Clk.

BALTIMORE, MD.—The Board of Awards has let contract for sinking test well at the sewerage pumping station to the METROPOLITAN CONTRACTING CO.

MACON, GA.—The Georgia Academy for the Blind will construct 10,000 ft. of 8-in. terra-cotta pipe sewer. Estimated cost, $10,- 000. T. D. Tinsley is Secy.

FORSYTH, GA.—Plans and specifications for constructing five miles of sewers are being prepared by C. A. Caldwell. Estimated cost, $20,000.

LOUISVILLE, KY.—Bids will soon be asked by the Board of Sewer Commissioners for constructing the Happy Hollow sewer. The sewer will be constructed of concrete and will extend from 21st to 27th Sts., north of High Ave. Estimated cost, $40,000. J. B. F. Breed is Ch. Engr. Harrison P. Eddry, of Worcester, Mass., is Consult. Engr.

SALEM, OHIO.—The following bids have been received by the Board of Public Service for constructing trunk sewer: Divine, Wilson & Applegate, $26,520, and Ferguson & Percell, of Lorain, Ohio, $28,267.

COLUMBUS, OHIO.—The New York Construction Co. is lowest bidder for constructing 20-in. sewage force main for the disposal plant, at $26,915. Henry C. Maetzel is City Engr.

CLEVELAND HEIGHTS (Cleveland postoffice), OHIO.—Bids are asked until Aug. 20 by W. G. Phare, Village Clk., 204 American Trust Bldg., Cleveland, for furnishing material and constructing sewers in Fairmount Boulevard.

PORT CLINTON, OHIO.—Bids are asked by J. J. Hubes, Village Clk., until noon, Aug. 19, for constructing sewer.

YOUNGSTOWN, OHIO.—Bids are asked until Aug. 2 by the Board of Public Service, W. H. McMillin, Clk., for constructing Elm St. Dist. Sewer in portions of various streets. F. M. Lillie is City Engr.

CLEVELAND, OHIO.—Bids are asked until Aug. 6 by the Board of Public Service, A. R. Callow, Secy., for furnishing material and constructing reinforced concrete culvert for Giddings Brook under East Boulevard.

*NEW PHILADELPHIA, OHIO.—Bids are asked by the Board of Public Service, George C. Marsh, Clk., until noon, Sept. 3, for laying 4,500 lin. ft. 8-in. pipe sewer. Clyde J. Knisely is City Engr.

EAST CHICAGO, IND.—Bids will soon be asked by the City Council for constructing Indian Harbor sewerage system of reinforced concrete. Estimated cost, $500,000.

EVANSVILLE, IND.—Bids are asked by the Board of Public Works, W. F. Wunderlich, Clk., Aug. 30 for constructing the Kentucky Ave. sewer. Estimated cost, $178,000. J. D. Saunders is City Engr.

PANA, ILL.—The contract for constructing the west end sewer has been let to JOHN HAMM.

GREEN BAY, WIS.—Bids are asked until Aug. 8 for constructing 9,000 ft. brick or concrete sewers and 10,000 ft. vitrified pipe sewer. W. W. Reed is City Engr.

FOND DU LAC, WIS.—S. H. COLE has been awarded contract for constructing Eighth St. storm sewer, at $14,426. L. A. Pettibone is City Engr.

MANITOWOC, WIS.—Bids are asked until Aug. 3 by Arthur Reichert, City Clk., for furnishing material and constructing sewers in portions of 22d, Main, Chicago and Eleventh Sts.

BURLINGTON, IOWA.—Bids are asked until 4 p. m., Aug. 5, for constructing vitrified pipe sewer in alley east of Foster St., between West Ave. and Spray St., to connect with Spray St. sewer. J. F. Winters is City Engr.

ST. PAUL, MINN.—Bids will soon be asked by the Board of Public Works for constructing sewer on Hastings Ave., Earl and other streets in Second Ward. Estimated cost, $55,000. L. W. Rundelett is City Engr.

BEMIDJI, MINN.—The JERRARD PLUMBING CO., of Bemidji, has secured the contract for constructing 3,920 ft. of sewer with twelve manholes, for $5,144.

AUSTIN, MINN.—Bids are asked until Aug. 2 by T. M. Foster, City Recorder, for constructing sanitary sewer in portion of Ash St.

BROOKINGS, S. DAK.—The contract for constructing sewerage system and septic tank has been let to G. W. HAGGART, of Fargo, N. Dak., at about $88,000.

MADISON, S. DAK.—Bids are asked by the Regents of Education, at Spearfish, S. Dak., until 9 a. m., Aug. 12, for constructing sewerage system for the Madison Normal School, at Madison. Irwin D. Aldrich is Secy.

*WEBSTER GROVES (St. Louis postoffice), MO.—Bids are asked by L. B. Ripley, City Clk., until 8 p. m., Aug. 19, for constructing district sewers in Sewer Districts Nos. 1 and 2, Webster Groves. The work in Dist. No. 1 includes 50,800 ft. 9 to 18-in. pipe sewer, 54 flush tanks and septic sewage disposal plant of 70,000 gallons capacity daily. The work in Dist. No. 2 includes 42,800 ft. 9 to 15-in. pipe sewer, 49 flush tanks and septic sewage disposal plant of 42,000 gallons capacity daily. The R. E. McMath Surveying Co., 328 Lincoln Trust Bldg., St. Louis, are Engrs.

CAPE GIRARDEAU, MO.—Bids are asked until Aug. 19 for constructing about twelve miles of 8 to 24-in. pipe sewers in District No. 1. C. C. Hawley is City Engr.

ST. JOSEPH, MO.—The Board of Public Works has let contract for constructing the 27th St. sewer to MARNELL & SON, as follows: 21-in. pipe, $1.89 per ft.; 24-in. $2.16; 27-in. $2.47; 31-in. $2.90; manholes and inlets, $50 each. The G. O. SKILFRED CONSTRUCTION CO. secured the contract for constructing the Oak Hill extension of the Bothell Ave. sewer, for $6.50 per lineal ft.; manholes, $25 each and inlets, $33 each. David L. Lawlor is City Engr.

*ARKADELPHIA, ARK.—Bids are asked by the Commissioners of Sewer District No. 1, Arkadelphia, until noon, Aug. 15, for constructing 45,280 ft. of clay pipe sewers. Theo. Hartman, 1122 Center St., Little Rock, Ark., is Engr.

FAYETTEVILLE, ARK.—Bids are asked by the Board of Improvements, until 3 p. m., Aug. 22, for furnishing material and constructing sewer system. Burns & McDonnell, 709 Dwight Bldg., Kansas City, Mo., are Engrs.

HOPE, ARK.—Plans and specifications for constructing sewerage and water-works systems are being prepared by W. H. Collins, of Memphis, Tenn. Septic tanks will probably be constructed. R. M. La Grove, A. L. Betts and E. S. Greening, Jr., compose commission in charge.

WACO, TEX.—Chas. F. Derr was low bidder for constructing 27,341 ft. 6-in. sewer in 6-ft. trench, at 21 cts.; 40,561 ft. 8-in., 8-ft. trench, at 29 cts.; 1,930 ft. 10-in., 6-ft. trench, at 38 cts.; 7,784 ft. 12-in., 7-ft. trench, at 52 cts.; 3,536 ft. 15-in., 10 ft. trench, at 72 cts.; earth excavation, to depth of 8 ft., and loose rock below, flush tanks, $64.50; wages of common labor, $2 per day; total, $50,678. Okander Brothers bid $55,220. George B. Gurley is City Engr. Geo. T. Barr is Asst. City Engr.

TACOMA, WASH.—N. A. JONES, at $16,- 485, has been awarded contract for constructing sewer in District No. 164. Frank L. Davis is City Engr.

RITZVILLE, WASH.—The lowest bid received by the City Council for constructing sewer system and septic tank was submitted by John Price, of Spokane, Wash., at $18,- 000, and the contract will probably be secured by him.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

NEW HAVEN, CONN.—Bids are asked until Aug. 5 by C. W. Kelley, City Engr., for paving with crushed stone and Belgian block gutters, portions of Prospect, Sachem and Plymouth Sts.

LOWELL, MASS.—Estimates for paving have been submitted by George Bowers, City Engr., as follows: Westford St., from Wilder to Gibson St.: Hassam paving, $1.75 per sq. yd., $18,200; tar macadam, $2.25 per yd., $22,- 800; brick, $2.90 per yd., $28,700; Trinidad pitch lake asphalt, $29,600; street railway tracks not proper for asphalt; Central St., from Canal to Appleton; Gorham from Towers' corner to Appleton; Middlesex from Central to Webster, including sidewalks; granite blocks new, with Hassam base, grout, etc., $3.20 per sq. yd., $28,900; granite blocks, old, $1.60 per yd., $15,000; tar macadam, $2.25 per yd., $21,100; brick, $2.90 per yd., $26,400; asphalt, $3 per yd., $27,300; John St., Hassam paving $1.75 per sq. yd., $3,370; tar macadam, $2.25, $4,160; brick, $2.75, $4,950; asphalt, $3 per yd., $5,350; Paige St., Hassam $1.75 per yd., $4,830; tar macadam, $2.25 per yd., $5,950; brick, $2.75 per yd., $7,000; asphalt, $3 per yd., $7,660. Charles J. Morse is Supt. of Streets.

ROCHESTER, N. Y.—The Board of Contract and Supply has awarded the following paving contracts: H. B. HOOKER & SONS, Cady St., brick pavement, $28,585. ROCHESTER VULCANITE PAVEMENT CO., portion of Monroe Ave., asphalt pavement, $14,945. H. W. COWLES, resurfacing Broadway, $3,- 530. WILLIAM FULLER, Adams St., macadam pavement, $18,906. F. C. LAUER & SONS CO., Wilson St., brick pavement, $5,884.

OWEGO, N. Y.—We are officially advised that the Board of Trustees, F. S. Bloodgood, Treas., received July 22 the following bids for laying 10,000 sq. yds. brick pavement on concrete base: Costello & Nagle, Elmira, N. Y., $1.34 per sq. yd.; Daniel Connors & Co., Elmira, N. Y., $1.22; R. W. HENSON, Geneva, N. Y, $1.20 (awarded contract); R. M. Rosser, Kingston, Pa., $1.55, and Francis J. McCann, Elmira, N. Y., $1.27. William F. Barton is Village Clk.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., Aug. 8, for constructing cement sidewalk and curb around Parade Ground, Prospect Park, Boro. of Brooklyn.

Bids are asked by the Department of Docks and Ferries, J. A. Bensel, Comr., until noon, Aug. 8, for curbing and flagging and for laying granite pavement, with crosswalks, within the area of the marginal street on the Chelsea section, between West 15th and West 19th Sts., North River, Borough of Manhattan.

Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., Aug. 15, for laying cement sidewalk around Rainey and Ashmead Parks, Boro. of Queens.

NEW YORK, N. Y.—The following bids were received July 25 by the Department of Parks, Moses Herrman, Pres., for furnishing and planting trees, garden mold, sodding, etc., along various streets, Boro. of The Bronx; A. Cavaluzzo, 2900 Fourth Ave., New York, $73,500; Swain & Nelson, $82,350; Charles L. Doran, 1015 Walton Ave., New York, $85,000; Atlanta Contracting Co., 464 East 91st St., New York, $88,000, and Frank Milligan, $75,200.

Bids were received July 25 by the Department of Parks, Moses Herrman, Pres., for paving with asphalt tiles the walks in Kings Park, Boro. of Queens: Continental Asphalt Paving Co., 42 Broadway, 27½ cts., and Hastings Pavement Co., 25 Broad St., 26 cts.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas and Electricity, John H. O'Brien, Comr., until 2 p. m., Aug. 14, for furnishing material and repairing and restoring artificial stone sidewalks and curbing and resetting natural stone curbing.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Aug. 14, for regulating, grading, paving, etc., portions of various streets, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., Aug. 8, for constructing asphalt tile walks in Flushing and College Point Parks, Boro. of Queens.

Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., Aug. 15 for laying cement sidewalks around Rainey and Ashmead Parks, Boro. of Queens.

NEW YORK, N. Y.—Bids are asked until noon, Aug. 14, by J. A. Bensel, Comr. of Docks, for repairing the asphalt pavements along the North and East Rivers, together with all work incidental thereto.

*ILION, N. Y.—Bids are asked by the Board of Street Commissioners until 8 p. m., Aug. 10, for laying about 2,300 sq. yds. of brick pavement, including curbing, catchbasins, etc. Edward Y. Stewart is Village Clk.

PLAINFIELD, N. J.—Specifications for paving, etc., as advertised, are on file at office of Engineering News, New York. The work includes 15,792 sq. yds. brick pavement, 1,035 lin. ft. new curb and resetting 1,400 lin. ft curbing, with under drains, etc. Bids are asked by the Common Council until Aug. 5. George B. Wean is City Clk. pro tem. Andrew J. Gavett is City Surv.

EDGEWATER, N. J.—Bids are asked by the Borough Council, until Aug. 6, for improving River Road, in the Shadyside Section. G. Clark is Boro. Engr., 1125 Broadway, New York.

*WESTFIELD, N. J.—Bids are asked by the Town Council until 8 p. m., Aug. 19, for regulating, grading and macadamizing Euclid Ave., from Broad St. to Mountain Ave. The work consists of approximately 555 cu. yds. excavation, exclusive of sub-grading, 3,837 sq. yds. 6-in. macadam and 227 sq. yds. cobble gutters. A. W. Vars is Town Surv. Lloyd Thompson is Town Clk.

WASHINGTON, PA.—Bids are asked by the County Commissioners until noon, Aug. 6, for construction of the following roads: Washington and West Middletown road, 10,- 800 ft. in length; Canonsburg and Westland road, 10,600 ft. long; Monongahela City to Ginger Hill, 16,000 ft. long; Monongahela City to Donora, 10,560 ft. long; Finleyville to Library, 18,000 ft. long, and the Point Lookout Road, 4,500 ft. William Wylie, Washington, Pa., is County Road Engr.

GREENSBURG, PA.—FRANK J. DIXON & BRO., Blairsville, Pa., have been awarded the contract for grading, curbing and paving Third and West Pittsburg Sts. and Harrison Ave., for $27,683.

SEWICKLEY, PA.—Bids are asked until 4 p. m., Aug. 6, for paving Centennial Ave. Work will include approximately 1,700 cu. yds. excavation, 4,900 yds. asphalt block paving, 100 ft. new curb, 700 ft. curb redressing and 2,630 ft. curb reset. Frederick T. Martin is Boro. Engr.

WASHINGTON, PA.—N. C. HUNTER has been awarded the contract for construction of one mile of state macadamized road between Burgettstown and Crossreek, for $12,780.

MONESSEN, PA.—Bids are asked by J. F. Irwin, Boro. Engr., until 6 p. m., Aug. 9, for grading, curbing and paving of approximately 17,500 sq. yds. with vitrified block.

BALTIMORE, MD.—The Board of Awards has let contract for paving Belle Ave., between Garrison and Lewin Aves., with macadam, to P. FLANAGAN & SONS, for $5,622.

FT. WASHINGTON, MD.—Bids are asked by the Constructing Quartermaster until noon, Aug. 26, for draining and grading the drill grounds at Ft. Washington.

HUNTSVILLE, ALA.—Bids are asked until Aug. 17 for laying vitrified brick pavement. R. E. Smith is Mayor.

TUSCALOOSA, ALA.—Bids are asked by the Mayor and Board of Aldermen until 8 p. m., Aug. 8, for constructing cement sidewalks and curbs on various streets. W. M. Faulk is Mayor.

The City Council has let contract for laying 13,190 sq. yds. of concrete or cement sidewalks to the ADAMANT STONE & PAVING CO., of Nashville, Tenn., at $1.24 per sq. yd.

HENDERSON, KY.—The Road Committee has awarded contracts for macadamizing roads, as follows: ED. MANION, one mile on the Anthoston and Robards Road, $3,887. H. H. HERRON, one mile on Hebbardsville Road, $7,696; one mile on Spottsville Road, $3,064, and one mile of levee on Ohio River and Bluff City Road, $3,999.

EAST LIVERPOOL, OHIO.—Bids are asked by the County Commissioners, at Lisben, until Aug. 10, for construction of road between this city and Wellsville. Road will be paved with brick set on edge. J. C. Kelly, East Liverpool, is Engr.

DAYTON, OHIO.—The Board of Public Service has let contract for paving Clay St. to A. WROE & SON, for $6,537. Robert E. Kline is City Engr.

CELINA, OHIO.—Bids are asked by M. Lutz, County Engr., until 10 a. m., Aug. 10, for ditching, grading, graveling or macadamizing the Romer and Jones Road.

MANSFIELD, OHIO.—Contract for construction of about three miles of pike road in Madison and Franklin Townships has been let to D. R. McARTHUR & CO., Kenton, Ohio, at $15,200.

CUYAHOGA FALLS, OHIO.—JOHN J. O'NEIL, Akron, Ohio, has been awarded contract for paving South Front St. with Malvern blocks, at $18,537.

BELLAIRE, OHIO.—FOWLER & CO., of Mt. Vernon, have secured contract for constructing two pikes, at $14,000.

MOUNT VERNON, OHIO.—Contract for constructing 4-in. asphalt block, gravel base with concrete curb and gutter on East High St. has been let to EVANS & HARPER, Zanesville, Ohio, at $48,974.

CLEVELAND, OHIO.—Bids are asked by the County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Aug. 17, for repairing pavement on Wooster Pike in Middleburg and Strongsville Townships. A. B. Lea is County Engr.

CLEVELAND HEIGHTS (Cleveland postoffice), OHIO.—Bids are asked by William G. Phare, Village Clk., 204 American Trust Bldg., Cleveland, O., until noon, Aug. 20, for constructing sidewalk on Fairmount Boulevard. F. A. Pease Engineering Co., 931 Williamson Bldg., Cleveland, are Engrs.

NEW BREMEN, OHIO.—Bids are asked by the Village Council, A. M. Steinebrey, Clk., until noon, Aug. 3, for grading, paving, etc., portion of Washington St.

*NEW PHILADELPHIA, OHIO.—Bids are asked by the Board of Public Service, George C. Marsh, Clk., until noon, Sept. 3, for laying 10,000 sq. yds. brick pavement. Clyde J. Knisely is City Engr.

CINCINNATI, OHIO.—The following bids were received July 26 by the Board of County Commissioners, Fred. Driehs, Clk., for improving Harrison Pike. A. J. Henkel & Bro., 703 Mercantile Library Bldg., Cincinnati, $55,000, and Wm. S. Nugent, Rural Route No. 3, Harrison, Ohio, $47,585. Itemized bids will be given next week under Contract Prices. Clinton Cowen is County Surv.

Bids were also received at the same time for improving Hamilton Pike, as follows: O. E. Robinson, 4649 Hamilton ave., Cincinnati, $11,461; J. M. Hassett & Co., Sharonville, Ohio, $11,732, and John & Ruebel Bro., 53 Atlas Bank Bldg., Cincinnati, $11,550.

The following bids were also received at the same time for improving Colerain Pike: J. M. Hassett & Co., Sharonville, Ohio, $50,- 765; O. E. Robinson, 4649 Hamilton Ave., Cincinnati, $42,946; M. Sullivan & Son, 703 Mercantile Library Bldg., Cincinnati, $42,- 868; A. J. Henkel & Bro., 703 Mercantile

Library Bldg., Cincinnati, $48,017, and John Ruetel & Bro., 56 Atlas Bank Bldg., Cincinnati, $41,240. Itemized bids will be given next week under Contract Prices.

EAST CHICAGO, IND.—Bids are being received by the City Council for grading, paving, etc., four streets. Estimated cost, $150,000.

SHELBYVILLE, IND.—Bids are asked by the City Council until 7.30 p. m., Aug. 6, for grading and paving Jackson St., and for laying 5-ft. cement sidewalks. H. J. Clark is City Clk.

BRAZIL, IND.—Contracts have been let as follows: MICHAELS & MINNICK, of Muncie, cement sidewalks on Depot, West McDonald, Hendrix, Illinois, Tennessee and Vermont Sts., prices per lin. ft. range from 45 to 58 cts., and paving with brick alley north of High School, at $1.54 per ft. KIRKPATRICK BROTHERS, of Greenfield, cement sidewalks on West Shattuck, Morton Sts., at 57 to 60 cts. per lin. ft. and paving Blaine St. and first alley south of National Ave. with brick, at $1.25 and $1.10 per sq. yd. RALPH M. CAMPBELL, cement sidewalks on Park, West Halbert, Compton Sts. and North First Ave., at 52 and 54 cts. per lin. ft.

TERRE HAUTE, IND.—Bids are asked by the Board of County Commissioners until 11 a. m., Aug. 3, for grading and graveling the Flesher Road, in Prairie Township. Jerome W. Denehie is County Audr.

IRONWOOD, MICH.—The following bids have been received by the Common Council for constructing cement sidewalks: H. C. Sorby, Escanaba, Mich., $12,333; W. H. Warren, Newberry, Mich., $12,412; Wm. Killbride & Co., Ishpeming, Mich., $13,324; P. T. Beeman & Co., Houghton, Mich., $13,393; J. J. Beyer & Co., Houghton, Mich., $13,566; Nelson Bros. Construction Co., Minneapolis, Minn., $16,385; W. A. Stewart, Antigo, Wis., $18,460.

CHICAGO, ILL.—Bids are asked until Aug. 5 by the Board of Local Improvement, H. S. Dietrich, Pres., for repairing brick, asphalt and granite block pavement on various streets.

STERLING, ILL.—Bids are asked by the Commissioner on Streets and Alleys, Fred. L. Johnson, Chn., until 6 p. m., Aug. 5, for macadamizing 19 blocks of streets.

CLARINDA, IOWA.—Bids are asked by C. W. Stuart, City Clk., until Aug. 6 for laying about 11,398 lin. ft. concrete clurb and gutter; also for 7 × 7 × 80 ft. reinforced concrete culvert.

BURLINGTON, IOWA.—Bids are asked by J. F. Winters, City Engr., until 4 p. m., Aug. 5, for grading, curbing, paving, etc., portions of various streets.

LAWRENCE, KAN.—Bids are asked by F. D. Brooks, City Clk., until 5 p. m., Aug. 5, for grading, curbing, paving, etc., portions of various streets.

LAWRENCE, KAN.—Bids are asked by F. D Brooks, City Clk, until 5 p. m., Aug. 5, for grading, curbing, paving, etc, portions of various streets.

DALLAS, TEX.—Contract for constructing Intermediate Road has been let to LAUDER BROS., at $4,656.

TOLLAND, COLO.—Bids are asked by T. W. Jaycox, State Engr., at Denver, until Aug. 2, for constructing wagon road beginning at Tolland, running toward American City, Gilpin and Clear Creek Counties.

FT. WORDEN (Port Townsend post-office), WASH.—The contract for constructing roads and walks at Ft. Worden has been let to GROMS & SCHUMMER, of Sturgis, S. Dak., at $7,900.

SEATTLE, WASH.—The Board of Public Works has let contract to the BEST CONSTRUCTION CO. for grading, etc., 24th Ave., North, for $10,892. R. H. Thomson is City Engr.

PORTLAND, ORE.—The Street Committee has awarded the following contracts: The WARREN CONSTRUCTION CO., laying bitulithic pavement on portion of Madison St., $1,801; on portion of East 20th St., $4,328 and portion of East 23d St., $3,730. The PACIFIC BRIDGE CO., laying bitulithic pavement on portion of East 20th St., $12,043; on portion of East 19th St., $10,850; on portion of East 18th St., $6,612, and on portion of Killingsworth Ave., $73,304. KEENAN BROS. CO., grading, laying sidewalks and curbs on portion of Lexington Ave., $2,771, and on portion of Leo Ave., $3,358. Douglas W. Taylor is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

NORTH DANA, MASS.—The H. W. Goodman Co. has decided to rebuild the hat factory, recently burned, on land of the Boston & Albany division, which the company has given the right to use. It is expected that the new plant will employ from 50 to 75 more hands than the old one.

NEW YORK, N. Y.—Bids were received on July 30 by the Board of Health, for furnishing all the labor and materials necessary or required to furnish and install two tubular boilers, laundry machinery and equipment, together with all necessary steam-fitting and other work incidental thereto, in the laundry building on the grounds of the Tuberculosis Sanatorium, at Otisville, Orange County, N. Y.: Kelly & Kelley, Inc., 45 East 42d St., $10,599; Donegan & Swift, 6 Murray St., $10,290; Earl & Cook Co., 150 Nassau St., $9,420; William Horne Co., 17 West 132d St., $10,470; Edward Joy, Syracuse, N. Y., $11,985. Thomas Darlington, M. D., is Pres.

ALBANY, N. Y.—The M. L. RYDER BUILDING CO., 213 Lark St., has been awarded the contract for constructing a building for the Federal Railway Signal Co., P. G. Ten Eyck, Vice-Pres.

ITHACA, N. Y.—The Morse Chain Co., Ithaca, N. Y., will build an extension to its plant, it is reported, 72 × 132 ft., two stories high, to provide space for the installation of a cold rolling plant.

CAMDEN, N. J.—Bids are asked until Aug. 7 for construction of plant for the Victor Talking Machine Co., 114 North Front St., Camden. Ballinger & Perrot, 1200 Arch St., Philadelphia, have completed plans for two additional factories and a power plant, to be erected at a cost of $200,000. The two additional factories will be erected at Second and Cooper Sts., and the power plant to be installed will have a capacity of 4,000 HP. One of the new buildings will measure 92 × 174 ft., with one story and basement and provisions for five additional stories to be erected later. The other new building will be six stories high, and will measure 80 × 173 ft. Both buildings will be built of brick, with stone trimmings to match the present building. The column, floor and roof construction will be of reinforced concrete, with slag roof covering. A triple window construction will be employed for obtaining the maximum amount of light, and windows on the court side of the building will have metal frames and sash glazed with wire glass. Concrete saw-tooth skylights will be provided in the roof. There will be a tower fire escape in each building, and a passenger elevator and a large freight elevator.

CARLISLE, PA.—The Bellaire Shoe Co. will construct a 3-story brick and cement block factory on West North St., it is stated. A part of the machinery will be run by dynamos. D. T. Wister is Pres.; Charles B. Wagner, Secy.

PHILADELPHIA, PA.—The HAIBACK CONTRACTING CO., 26th and Thompson Sts., has the contract for a 3-story brick addition to factory, at 21st St. and Allegheny Ave., for the Steel Heddle Mfg. Co.

METZGAR & WELLS, Heed Bldg., have the contract for constructing a 2-story brick and stone laundry building, at Lawrence and Huntingdon Sts., for St. Christopher's Hospital.

Ballinger & Perrot, 1200 Chestnut St., have awarded to the CONCRETE ENGINEERING & SUPPLY CO. the contract for building a 2-story machine shop at Stenton Ave. and Louden St., for Edgar P. Earle. The building, which will be occupied by the Earle Gear & Machine Co., Oxford and Mascher Sts.., will beasure 70 × 138 ft., and will be of brick, stone and concrete.

BALTIMORE, MD.—The James J. Lacy Co., proprietor of the Industrial Iron Works, 1401 Block St., has awarded contract to WILLIS & MASON, 324 West Biddle St., for the construction of 1-story addition, 16 × 87 ft., to its iron foundry at corner Block and Willis Sts.

ANNISTON, ALA.—Alabama Pipe & Castings Co. will establish a pipe foundry. The floor space will be 50 × 100 ft. A general foundry will be operated. J. M. Stillwell, of Birmingham, Ala., is Mgr.

ENSLEY, ALA.—The Tennessee Coal, Iron & R. R. Co. will build a steel mill at Ensley with four 100-ton furnaces each, the contract to be let at once. J. W. Barr is Supt.

CHATTANOOGA, TENN.—The Frictionless Metal Co., Chattanooga, has increased its capital stock for the purpose of installing new furnaces to supply the increased demand for its product. The furnaces will be installed in the main plant at Chattanooga, which was built two years ago.

MEMPHIS, TENN.—The Merchants' Cotton Press & Storage Co. has obtained building permit for erection of its proposed cotton compresses and sheds to be operated by the Gulf Compress Co. The permit states the cost will be $180,000. The structures will be 300 ft. wide by 1,880 ft. long, with capacity of 24,000 bales uncompressed and 48,000 compressed. Excavations are about completed, foundation is being constructed, and building will be begun at once. J. R. Fordyce is Ch. Engr. of Merchants' Co.

CINCINNATI, OHIO.—Press reports state that the Samuel C. Tatum Co., manufacturers of machinery, Water and John Sts., has secured a permit to erect a $32,000 plant on Colerain Ave., between Monmouth and Michigan Sts.; also a 1-story foundry, to cost $20,000. The main structure will be brick and steel, five stories high. The site is above the high water mark and has good shipping facilities. Bids for construction will be received in a few days.

The Cincinnati Soap Co. has increased its capital to $150,000, and will erect a plant for the manufacture of soap. The officers of the company are now considering the size, location and construction of the building, and hope to submit their plans to a local architect at once.

Property in Wilstach Ave. has been purchased by the Queen City Paper Box Co., on which the company will erect a plant.

PIQUA, OHIO.—The French Oil Mill & Machine Co. has awarded general contract to A. M. FRY for an addition to factory, which will be two stories, 70 × 161 ft., of brick and mill construction, with concrete foundation, composition roof and iron work.

CLEVELAND, OHIO.—The Osborn Engineering Co. has let general contract to GEORGE B. McMILLAN for a 1-story factory building for the Park Drop Forge Co.

EVANSVILLE, IND.—The Henry Maley Lumber Co. will ask for bids soon for erection and equipment of a sawmill near the fair grounds.

Bids are asked by the Commissioners of Vanderburg County until 10 a. m., Sept. 5, for erection of a barn and a laundry building at the county orphan asylum. Harry Stinson is County Audr.

The Hercules Buggy Co., of Evansville, has ordered plans and will ask for bids soon for construction of a new plant. The plant will be a 2-story brick structure with basement. Harris & Shopbell are Archs.

DETROIT, MICH.—Richard E. Raseman, Arch., has let contracts for a 2-story factory building for the Alaska Knitting Co., at $30,000.

BATTLE CREEK, MICH.—The Toasted Corn Flakes Co. will rebuild its plant, lately burned. The plant will cost $150,000, and will be erected of solid brick and fireproof.

ROCKFORD, ILL.—The Redin, Ekstrom & Co., Seventh St., is contemplating erection of a machine shop, 50 × 100 ft., in the southeast end of the city.

WAUKEGAN, ILL.—The Corn Products Refining Co. will, it is reported, enlarge its glucose plant here by building 20 reinforced concrete grain tanks at a cost of about $75,000. Each will be about 20 ft. in diameter and 85 ft. high, with a capacity of about 20,000 bushels each.

LA CROSSE, WIS.—GROFF & DOERR, 520 King St., have secured the general contract for constructing a 6-story brick, steel and concrete brewery, 140 × 170 ft., at La Crosse, for C. & J. Michel Brewing Co., at $250,000.

SUPERIOR, WIS.—The Great Northern Ry. Co. has authorized the construction of shops in Superior for the purpose of building steel ore and freight cars. The total cost of the buildings and equipment is estimated at about $200,000. J. H. Taylor, Superior, is Div. Engr.

MINNEAPOLIS, MINN.—The Flour City Ornamental Iron Works has awarded the contract to J. L. ROBINSON, 25 South Seventh St., for erection of the brick and steel foundry building, 75 × 200 ft., at $25,000.

ONEOTA (Duluth post-office), MINN.—The People's Brewing Co., Burrows Bldg., Duluth, has awarded contract for the construction of its new building at Oneota to BOLLINGER BROS., Fulton Bldg., Pittsburg, Pa. The building will cost $140,000, which cost includes both the building and equipping of the plant, but not the stables, office, etc. Plans and specifications are being prepared by Bollinger Bros. for the office building. The buildings comprising the plant proper will be of steel, stone, brick and concrete construction. The machinery will all be electrically driven by individual motors. The brew-house will contain a 175-bbl. kettle. There will be two 150-HP. boilers and two 40-ton ice machines. Two 40-KW. generators for power and light purposes. The building will be about 170 ft. × 120 ft., and will be four stories high and a tower.

ST. LOUIS, MO.—The A. Gilbert & Sons Brass Foundry Co., 2024 Eugenia St., will erect a foundry on Forest Park Boulevard, between Vandeventer Ave. and Sarah St.

TEAGUE, TEX.—Plans have been prepared for the Trinity & Brazos Valley Ry. Co., P. G. Burns, Mexia, Tex., Ch. Engr., for a machine shop, round-house and terminals, to be built at a cost of $500,000.

BARTLESVILLE, IND. T.—We are officially advised that the SOUTHWESTERN BRIDGE CO., of Joplin, Mo., has secured contract for steel buildings for machine shop and foundry of the Bartlesville Foundry & Machine Works, Bartlesville.

PORTLAND, ORE.—Emil Schacht, Arch., is preparing plans for a 3-story building, 25 × 100 ft., to be erected at the corner of First and Madison Sts. by the Star Brewery Co., of Vancouver, Wash., to cost about $25,000.

NEWBERG, ORE.—The Weber-Bussell Co., of Seattle, will construct a $20,000 cannery here.

LEWISTON, IDAHO.—It is reported that the Idaho Portland Cement Co. will install a $35,000 plant for manufacturing pressed brick at once, and later a $300,000 plant for manufacturing Portland cement.

MONCTON, N. B.—E. A. WALLBERG, Merchants' Bank Bldg., Montreal, Que., has contract to construct Intercolonial Ry. shops at Moncton and Halifax, N. S., and Prince Edward Island Ry. shops at Charlottetown, P. E. I.; also engine house and freight yard for the Intercolonial Ry. at Pictou, N. S.

SANDWICH, ONT.—According to press reports, the U. S. Steel Co. has given up its options on property at Thorold, Sarnia and Owen Sound, Ont., having finally decided to build its Canadian steel plant at Sandwich, opposite Detroit, Mich. It is probable that work will be begun by Oct. 1 on a city of 900 to 1,000 acres at Sandwich, which will have an initial population of 8,000 people. Four blast furnaces will be erected, and rails will be made.

TORONTO, ONT.—The Standard Chemical Co., Toronto, will erect a factory, it is reported, at a cost of about $50,000.

HAMILTON, ONT.—Plans are being prepared by Stewart & Witton, of Hamilton, for a $75,000 building for the Canada Steel Goods Co., Ltd., of Hamilton.

SASKATOON, SASK.—Complete plans have been drawn for the erection of an abattoir by Gordon & Sparling, Saskatoon, Sask., at a cost of about $48,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply-Irrigation.

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*LANTERN.—Hawaii.—See U. S. Possessions.

WHARF REPAIRS.—Chester, Pa.—Bids are asked by Wm. N. Boulden, Chn. Pub. Property Com., until 8 p. m., Aug. 5, for repairs to the Market St. wharf.

*JETTIES.—Jacksonville, Fla.—Bids are asked until noon, Aug. 26, by Maj. Francis R. Shunk, Corps Engrs., U. S. A., for building jetties at Biscayne Bay, Fla.

*DREDGING — Boston, Mass. — Bids are asked until noon, Aug. 20, by Maj. Edward Burr, Corps Engrs., U. S. A., Boston, for dredging in Weymouth Back River, Mass.

PATROL WAGON, ETC.—New York, N. Y. —Bids are asked by Theo. A. Bingham, Police Comr., until 10 a. m., Aug. 9, for furnishing and delivering one gasoline patrol wagon and two power launches for the Police Department.

*DREDGING.—Charleston, S. C.—Bids are asked until noon, Aug. 20, by Capt. E. R. Stuart, Corps Engrs., U. S. A., for dredging canal between Seevee Bay and Cleilanville, S. C.

*FENCE.—Oswego, N. Y.—Bids are asked until 11 a. m., Aug. 20, by Lieut.-Col. W. F. Harrell, Const. Q. M., Fort Ontario, for construction of an iron and wire fence at this post.

DREDGING.—Washington, D. C.—Bids are asked by Maj. Spencer Cosby, Corps Engrs., U. S. A., until noon Aug. 1, for dredging in Potomac and Anacostia rivers, near Washington.

*EMBANKMENT.—New York, N. Y.—Bids are asked until noon, Aug. 20, by Lieut.-Col. W. L. Marshall, Corps Engrs., U. S. A., for building an embankment at Governor's Island, N. Y. Harbor.

*CHANNEL.—Newport, R. I. — Bids are asked until 11 a. m., Aug. 28, by Lieut.-Col. J. H. Willard, Corps Engrs., U. S. A., for dredging entrance channel to Great Salt Pond, Block Island.

*IRON LAMP POSTS, ETC.—West Point, N. Y.—Bids are asked until noon, Aug. 19, by Maj. J. M. Carson, Jr., Q. M., for furnishing iron lamp posts and lanterns for electric street lights.

*SEARCHLIGHT OUTFIT.—Washington, D. C.—Bids are asked until 11 a. m., Sept. 30, by Maj. E. Eveleth Wilcox, Corps Engrs. U. S. A., Washington, for construction of experimental fire searchlight outfit.

REINFORCING.—West Point, N. Y.—Bids are asked by Maj. J. M. Carson, Jr., Q. M., until noon, Aug. 10, for furnishing and installing reinforcing for girder under south wall of library tower.

DRAIN, ETC.—Arkansas City, Ark.—Bids are asked until Aug. 5 by W. E. Meeks, County Clk., for constructing drains and ditches in Drainage Dist. No 1. Approximately 600,000 cu. yds.

CONDUIT. — Washington, D. C. — The CRANFORD PAVING CO., of Washington, has the contract for the construction of a concrete conduit at the Walter Read Army General Hospital at $14,250.

BREAKWATER.—Oswego, N. Y.—Bids are asked by Col. H. M. Adams, Corps Engrs., U. S. A., Buffalo, until 11 a. m., Aug. 17 for constructing stone-concrete superstructure on outer breakwater at Oswego.

CANAL.—Peterboro, Ont.—Bids are asked until Aug. 7 by Alex. J. Grant, Supt. Engr., Trent Canal, Peterboro, for the work connected with the construction of Sec. 5, Ontario-Rice Lake Division of the canal.

*ROCK EXCAVATION.—Cape Porpoise, Me.—Bids are asked until noon, Aug. 30, by Maj. George A. Zinn, Corps Engrs., U. S. A., 537 Congress St., Portland, Me., for rock excavation in Cape Porpoise Harbor, Me.

COKE OVENS.—Ligonier, Pa.—The Fort Palmer Coal & Coke Co., Jos. C. Head, Pres., has awarded ANTONIO COLANGELO, of Latrobe, Pa., the contract for the construction of 100 coke ovens on the McClure Farm near here.

SUBWAY ENTRANCE.—Boston, Mass.—Bids are asked until noon, Aug. 15, by the Boston Transit Commission, B. Leighton Beal, Secy., for constructing entrance and exit at Water and Devonshire Sts., for the Washington St. tunnel.

SEA WALL.—New Orleans, La.—The only bid received by Col. E. H. Ruffner, Corps Engrs., U. S. A., New Orleans, on July 15 for constructing seawall at Fort St. Philip was submitted by Christie & Lowe, 107 Camp St., New Orleans, at $105,100.

*CONCRETE, EARTH EXCAVATION.—Ithaca, N. Y.—Bailey, Johnson & Saunders, Ithaca, want "to sublet a thousand yards of second and third class concrete at six and eight dollars. 15,000 yards of earth excavation, 30 cts.; no overhaul."

*SUCTION DREDGES.—New York, N. Y.—Bids are asked until 2.30 p. m., Aug. 30, by Maj. J. C. Sanford, Corps Engrs., U. S. A., Witherspoon Bldg., Philadelphia, Pa., for constructing two steel twin-screw suction dredges for New York Harbor, N. Y.

*RIPRAP.—Boston, Mass.—Bids are asked by the Board of Harbor and Land Commissioners until 2 p. m., Aug. 9, for furnishing and placing riprap on the southeasterly bank of the Connecticut River, at Hadley, Mass. Frank W. Hodgdon, Ch. Engr.

RUBBER HOSE.—New York, N. Y.—Bids are asked by Henry S. Thompson, Acting Boro. Pres. and Comr. of Pub. Wks, until 2 p. m., Aug. 6, for furnishing and delivering 3,000 ft. best 2½-in. rubber hose in 50-ft. lengths, with all necessary couplings.

DRAINAGE.—Sibley, Iowa.—Bids are asked until noon, Sept. 10, for the construction of an open ditch requiring about 103,000 cu. yds. excavation. Specifications and other information will be received by applying to V. A. Burley, County Audr., at Sibley.

VESSEL.—Washington, D. C. — Bids are asked until 2 p. m., Aug. 19, by the Light-House Board, Washington, for the construction of a single-screw steel steam light-vessel, to be delivered either at Charlevoix, Mich.; Detroit, Mich., or Tompkinsville, N. Y.

*REPAIRING PIER. — Holland, Mich. — Bids were received by Col. [illegible] B. Adams, Corps Engrs., U. S. A., on July 26, for repairing North Pier, at Holland, as follows: Bennett-Schnorbach Co., Muskegon, Mich., $33,844; Burk, Smith & Nelson, Muskegon, $35,716.

*DAM.—Cincinnati, Ohio.—Two bids were received on July 18 by Lieut.-Col. William Rossell, Corps Engrs., U. S. A., for constructing concrete dam, etc., at the head of Brown's Island, Ohio River. It has been recommended by Col. Rossell that they be rejected.

TUG.—Washington, D. C.—The Revenue Cutter Service, Washington, has decided to re-advertise for bids for the construction of a tug, modifying to some extent the orig-

inal ...fications, as the only bid received on Ju...17 was $35,000 in excess of approprial... This bid was from the Maryland Steel ... for $205,000.

...GING.—Jacksonville, Fla. — Bids were ...eived on July 24 by Maj. Francis R. ...Corps Engrs., U. S. A., for dredging Shu... ...ns River, Fla., at Jacksonville. P. ... Ross, Jersey City, was the lowest ... $3.03 a cu. yd. Estimated quan... ...000 cu. yds.

... — Hooppole Ill. — Bids are asked ... m., Aug. 2 by the Commissioners of ... Dist. No. 1, Township 18, Range ... deepening and widening of the main ... this drainage district, requiring the ... of about 150,000 cu. yds. of material. ... Sears, Engr., Prophetstown, Ill.

...WALL.—Bremerton, Wash.—Bids are ...ed by the Bureau of Yards and Docks, ...Dept., Washington, D. C., until 11 a. ... 24 for constructing a concrete quay ... the Puget Sound Navy Yard, Bremer... Wash. Specifications are on file at ... of Engineering News, New York.

...EDGING. — Charleston, S. C. — The NORTH AMERICAN DREDGING CO., 13 Park Row, New York, has been awarded ... by the Bureau of Yards and Docks, Navy Dept., at 14.9 cts. a cu. yd., for dredging ...000 cu. yds. in front of dry-dock at Navy Yard, Charleston, and at $5,000 for removing piles. Total cost, about $85,675.

BUOYS, ETC.—New York, N. Y.—Bids are asked by the Light-House Inspector, Tompkinsville, N. Y., until 2 p. m., Aug. 21, for furnishing and delivering moorings for vessels and buoys of the light-house establishment during the fiscal year ending June 30, 1908. The articles to be furnished embrace chain for light-vessels, chain for buoys, mushroom anchors, bridle chains, swivels for light-vessel chain and light vessel, buoy and anchor shackles.

TUNNEL.—New York, N. Y.—Bids are asked until 3 p. m., Aug. 12, by Myles Tierney, Acting Pres., Bd. of Trustees, Bellevue and Allied Hospitals, for all the labor and materials required for constructing a tunnel connecting the training school for women nurses with pavilions A and B of the new Bellevue Hospital, situated under 26th St., east of First Ave., Boro. Manhattan.

NEW TOWN.—Pittsburg, Pa.—The Jones & Laughlin Steel Co., with general offices in Pittsburg, "for the purpose of establishing a new town, to be inhabited chiefly by its own employes, have purchased 100 acres near its new steel plant now under construction at Aliquippa, 22 miles from Pittsburg," according to press reports. "The tract will at once be laid out in lots, streets cut through and modern sanitary conditions supplied. The concern will take 7,000 men to Aliquippa."

FREIGHT SHEDS.—New York, N. Y.—Bids were received as follows on July 26 by the Department of Docks for preparing for and building freight sheds on Piers Nos. 54 and 56, North River, between the foot of Little West Twelfth and West 14th Sts., on the Chelsea Section, with lateral extensions on the adjacent bulkhead platforms: Snare & Triest Co., 147 Liberty St., City, $1,132,580; R. P. & J. H. Staats, $1,219,000; Post & McCord, 44 East 23d St., $1,154,000; G. B. Spearin, West Bldg., $1,240,167.

LEVEE.—Piggott, Ark.—Bids were received on July 16 by the Board of Directors of the St. Francis District of Clay and Greene Counties, at Piggott, for enlarging a total of twelve miles of levee; building 7.2 miles of levee and dredging 30½ miles of main drainage ditch, including clearings, tools and labor necessary to complete same. George W. Seitz is Secy. Contract for dredging has been let to A. V. WILLS & SONS, of Malden, Mo., at 10.44 cts. a cu. yd. Contract for levee work has not been awarded yet.

LEVEE WORK.—New Orleans, La.—Bids are asked until noon, Aug. 2, by the Board of Commissioners, Orleans Levee Dist., Masonic Temple, New Orleans, for the construction of the following work: Dublin St. to Fern St., new levee and revetment. About 90,000 cu. yds. of earthwork and about 77,000 ft. B. M. of creosoted pine lumber in revetment. Deposit required, $500. Bond required $20,000. Seventh St. to Third St., new levee. About 100,000 cu. yds. of earthwork. Deposit required, $500. Bond required $20,000.

DITCHES.—Moorhead, Minn. — Contracts for 17 miles of ditch work have been awarded by the County Auditor as follows: Ditch No. 17, town of Elkton, 17,128 ft. in length, to SWANSON BROS., of Moorhead at 15¼ cts. a cu. yd. Total cost, $5,294. Ditch No. 18, town of Goose Prairie, main ditch 38,300 ft. in length, branch ditch 2,900 ft. in length, to HENRY WILDER, of Crookston, at 15.6 cts. a cu. yd. Total cost, $8,704. Ditch No. 19, towns of Goose Prairie and Keene, length 32,800 ft., to HENRY WILDER, of Crookston, at 19¼ cts. a cu. yd. Total cost, $6,187.

FLOOD PROTECTION. — Grand Rapids, Mich.—Bids were received on July 19 for flood protection work as follows: (A) Joseph Rusche, 4 Portsmouth Terrace, Grand Rapids; (B) John J. O'Heron & Co., 6 Wabash Ave., Chicago; (C) Appleyard, Johnson & Co.; (D) Albert Prange. Totals for work south of Leonard: (A) $65,294; (B) $69,331; (C) $76,062; (D) $99,042. For work on Myrtle St.: (A) $892; (B) $770; (C) $540; (D) No bid. For work of cofferdam: (A) $4,725; (B) $3,544; (C) $5,906; (D) No bid. Total for the work taken as one job: (A) $70,911; (B) $73,645; (C) $82,508. L. W. Anderson is City Engr.

*DREDGING.—Charleston, S. C.—One bid only was received on July 20 by Capt. G. P. Howell, Corps Engrs., U. S. A., for dredging in Winyah Bay, S. C. It was submitted by F. Sanford Ross, Jersey City, N. J. The contract calls for the removal of 170,000 cu. yds. of sand, 920 stumps and 40 logs, approximately. The bidder offers to dredge out the sand at 19.9 cts. a cu. yd.; to remove the stumps at $17.50 each and the logs at $5 a cu. yd. The amount on hand for this project for improving Winyah Bay is $107,890. The bid is now under consideration and it will be several weeks before the result will be made public.

DRY DOCK.—Bremerton, Wash.—Bids were opened July 27 at the Bureau of Yards and Docks, Navy Dept., Washington, for the construction of a dry dock at the Puget Sound Navy Yard, Bremerton, Wash., as follows: Independent Asphalt Paving Co., 204 Pioneer Building, Seattle, Wash., Item 1, $1,240,000; 2, $1,197,000; 3, $1,238,000; 4, $9,000; 5, 30 cts.; 8, $31,000.

Wm. Norton Concannon, 9 Mission St., San Francisco, Cal., Item 1, $1,730,862; 2, $1,696,356; 3, $1,746,360; 4, $15,000 deduct; 5, 60 cts.; 8, $32,765 add.

International Contract Co., 737 N. Y. Block, Seattle, Wash., Item 1, $1,594,140.

F. McLellan & Co., Inc., 425 Burk Block, Seattle, Wash., Item 1, $1,192,284; 2, $1,182,284; 4, $200,000; 5, $25,000.

The Scofield Co., 906 Pennsylvania Bldg., Philadelphia, Item 1, $1,602,000; 2, $18,600 deduct; 3, $1,315 add; 4, $26,060 deduct; 5, 40 cts.; 6, time satisfactory; 7, $1,240,500; 8, $20,700.

RIVER IMPROVEMENT.—Albany, N. Y.—R. H. Talcott, U. S. Asst. Engr., located at Albany, has announced that the contract for deepening Schodack creek has been awarded to MARITIME DREDGING CO., 78 Broad St., New York, for $5,000. The contract for the general deepening of the Hudson River between Coxsackie and Troy has not as yet been awarded. The lowest bidder was the Newburg Dredging Co., whose bid was 24.9 cts. per cu. yd. The new channel in the river between Coxsackie and Troy is to be 12 ft. deep and 400 ft. wide.

The following bids were received on July 12, by the State Water Supply Commission, DeGraaf Bldg., Albany, for the work of straightening, deepening and improving Canaseraga Creek, Kiskaqua Creek and other ditches in Livingston County, N. Y.: Graves & Stephens, Cleveland, Ohio, $146,501; Gilmour-Horton-Allen Co., Yonkers, N. Y., $172,259; Pennell & O'Hearn, Yonkers, N. Y., $171,885. The contract has been awarded to GRAVES & STEPHENS on their bid. The following bids were received on June 21 for the above work, but were declared informal and were rejected: Graves & Stephens, $135,933; Gilmour-Horton-Allen Co., $199,343, and Pennell & O'Hearn, $215,549.

U. S. POSSESSIONS AND CUBA.

(denotes that this work is advertised in Engineering News.)*

DUMP CARS.—Panama. — The Isthmian Canal Commission will soon be on the market for 500 all-steel dump cars, 12 yds. capacity, and 115 contractor's dump cars, four yds. capacity.

*LANTERN.—Hawaii.—Bids are asked until 1 p. m., Aug. 22, at office of the Light-House Engineer, Tompkinsville, N. Y., for furnishing one first-order lantern for Nakapuu Point Light Station, Hawaii.

POWDER.—Panama.—Bids were recently opened at the Isthmian Canal Commission for 1,250,000 lbs. of saltpeter lynamite, as follows: E. I. DUPONT DE NEMOURSE, 90 West St., New York City (awarded contract), $138,425; 60 days. National Powder Co., 353 Fifth Ave., New York, $148,750; 120 days.

BOILER TUBES.—Panama. — Bids were opened at the Isthmian Canal Commission, Washington, D. C., on July 22, for 9,000 boiler tubes of various sizes as follows: E. F. Keating Co., 452 Water St., New York, $20,706; 100 days. Fox Bros. & Co., 126 Lafayette St., New York, $23,671; 60 days. Handlan Buck Mfg. Co., 210 N. 3d St., St. Louis, Mo., $22,338; 60 days. Motley Green Co., 66 Broad St., New York, $23,671; 120 days. Pancoast, Rogers & Richards Co., 28 Platt St., New York, $23,733; 30 days. U. S. Steel Products Export Co, 24 State St., New York, $20,400; 90 days.

*VALVES, SLUICE GATES.—Manila, P. I.—Bids are asked until noon, Sept. 14, for furnishing and delivering at ship's side in Manila, valves and sluice gates for use in the gravity water supply system. The Department of Sewers and Water-Works Construction will soon advertise for the pumps and machinery necessary for the six pumping stations of the sewer system. John M. Tuther, Secy. Municipal Board. J. F. Case, Ch. Engr. Plans and specifications for this work are on file at office of Engineering News, New York. (Advertised, Engineering News, July 25.)

MISCELLANEOUS SUPPLIES.—Panama.—Circular No. 378 calls for bids to be opened at the Isthmian Canal Commission, Washington, D. C., on Aug. 8, as follows: 3,200 gross tons of steel rails; 25,500 angle bars; 50,000 nut locks; 264,000 lbs. track spikes; 68,000 track bolts, 24 rigid frogs; 24 sets stub-switch fixtures; 24 rigid frogs; 24 sets 100,000 cross ties; piles; bridge caps; ties; guard-rails; braces; and 1,950 ft. of vitrified culvert pipe.

Circular No. 379 calls for bids to be opened at the Isthmian Canal Commission, Washington, D. C., on August 9, as follows: 8,000 ft. of cast iron pipe and fittings; 15 cast-iron gate valves; 20,000 ft. of vitrified sewer pipe with bends and Y's; soft and hard rubber valves; rivet punches and dies; electrical fixtures; one portable pressure gage testing machine; steel bars and plates; one cast-steel dipper arm part; 50 shipper shaft pinions; repair parts for steam shovels; 20,000 lbs. of wool waste; 15,000 gals. raw linseed oil; 20,000 gals. kerosene; 1,000 gals. lard oil; and 2,000 gals. signal oil.

Circular No. 380 calls for bids to be opened at the Isthmian Canal Commission, Washington, D. C., Aug. 12, for three steel dump barges, knocked down.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

SEWERAGE.—Servia.—The city of Belgrade will spend about $400,000 upon a sewerage system at that place.

ABATTOIR.—France.—A public slaughterhouse, estimated to cost about $241,250, is to be built at Angers, Maine-et-Loire.

DRY DOCKS.—France. — The Boulogne Chamber of Commerce has been authorized to construct dry docks at that port.

RAILWAY BRIDGE.—Chile. — Bids are asked by the Ministerio de Industria y Obras Publicas, Santiago, until 2 p. m., Sept. 30, for construction of five railway bridges. Local representation is necessary.

GRAIN ELEVATOR.—Argentina.—A contract has been entered into by the Argentine Government whereby the Sociedad del Puerto of Rosario is authorized to erect a grain elevator at a cost of 182,128 pesos gold ($175,753).

RAILWAY.—Portugal.—Authority has been granted to the Municipality of Montemor-o-Novo to contract a loan of 170,000 milreis (about $183,600) for the construction of a railway to connect that town with the station of the same name.

TORPEDO BOATS, ETC.—Portugal.—Bids will be asked soon by the Admiralty Department, Lisbon, for construction of telephones; two torpedo chasers; six torpedo boats; two submarines; one boat for laying of mines and one scout boat. Estimated cost, $2,000,000.

RESERVOIR.—England.—Bids will be received until Aug. 12 by the Rural District Council at Neath for reservoir, 110 ft. embankment, waste weir and water course discharge tunnel, valve shaft, approach road, etc. Address G. H. Hill & Sons, Albert Chambers, Albert Sq., Manchester.

TELEGRAPH LINE.—Argentina.—The Argentina Government has entered into a contract with the Central and South American Telegraph Co., whereby this company is authorized to construct a telegraph line from Buenos Ayres to Mendoza via Mercedes, Junin, Rufino, Villa Mercedes, and San Luis, with a branch from Junin to Pergamino, San Nicolas and Rosario.

RAILWAY — Netherlands. — A concession has been granted to the Netherlands Suburban Railway Co. of Utrecht (Nederlandsche Buurtspoorweg Maatschappij) for a steam railway from Nunspeet to Hattem in the Province of Gelderland. Bids for the material and rolling stock of the railway will be private or public at the option of the Minister of "Waterstaat" who granted the concession.

TELEPHONE MATERIAL.—Austria.—Bids are asked until noon, Jan. 8, 1908, at the office of the Deputy Postmaster-General, Adelaide, for one common battery switchboard and 3,000 subscribers' telephones, in accordance with specification No. 166. Bidders must state the country in which the articles bid upon have been made or produced, and, in the case of manufactured articles, where the material has been made or produced.

CANAL.—Russia.—The Tolo Canal, which has hitherto been thought too costly to be practical, has been once more brought within the realms of practical politics by the adoption of a more circuitous route which will reduce the cost by about one-half. It is now proposed to build the canal about 500 yards to the north of the route formerly projected, by which means the deep granite cuttings will be avoided.

WAR MATERIAL AND SUPPLIES.—Mexico.—Albert Halstead, U. S. Consul at Birmingham, quotes from a newspaper in that city as follows: Inquiries which are being made here tend to show that at an early date the Mexican Government will place contracts for the supply of a large quantity of war material, including not only small arms, but a number of batteries of heavy guns. Nearly $20,000,000 will be expended upon these supplies, covered by three annual appropriations, commencing next November.

REBUILDING OF KINGSTON.—Jamaica.—Frederick Van Dyne, U. S. Consul at Kingston, in a recent report stated that "the prospective disbursement of nearly $5,000,000 within the next two or three years should influence American dealers in lumber, iron, steel, cement, and other building materials to plan a vigorous campaign to secure their share of the trade. (The names of the leading Kingston dealers in hardware, lumber, etc., are filed for reference at the Bureau of Manufacturers, Dept. Commerce and Labor, Washington, D. C.)

COPPER WIRE—South Africa.—Bids are asked until noon, Aug. 20, by the Crown Agents for the Colonies, acting on behalf of the Central South African Railways for the supply of 27,000 lbs. of hard-drawn copper wire. Forms of bid and all particulars may be obtained on application at the office of the Crown Agents for the Colonies, Whitehall Gardens, London, S. W., between the hours of 10 a. m. and 4 p. m. (Saturdays 10 a. m. and 1 p. m.) on payment of a deposit of 10s., returnable on receipt of a bonda fide bid for the whole or part of the supplies required.

HARBOR. — Norway. — Specifications have been prepared by the Norwegian authorities for a new harbor for Bergen and other improvements, including a breakwater to be connected with the mainland directly outside of Nordnaes; either new angular quays or piers for the bridge at Toldboden; a harbor for fishing boats at Bontelbo, protected by a breakwater; deepening of the harbor; a bathing house at Nodnaes, and new piers, bridges, etc. A blueprint showing the proposed Bergen harbor improvements and complete details are filed for reference at the Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C. Felix S. S. Johnson is U. S. Consul at Bergen.

TRACTION ENGINES—Italy.—With a view to generalize the use of traction and agricultural engines in vine cultivation, the King of Italy has instituted an international competition to be held at Palermo during the autumn of the present year. The first prize is a diploma of honor and 10,000 lire ($2,000), with an order for two of the successful engines, while the second prize consists of a gold medal and 3,000 lire ($600). Application for admission to compete must be addressed, not later than Sept. 15 next, to the General Director of Agriculture, Ministry of Agriculture, Industry and Commerce, Rome.

RAILWAYS.—Switzerland. — A syndicate headed by M. Joseph Troller, of Triengen, has been authorized to construct and work a railway (steam or electric traction) between Sursee and Triengen.

The Canton of Grisons has been granted a subsidy of 5,000,000 frs. (about $1,000,000) for the construction of railways between Bevers and Schuls, and between Ilanz and Disentis.

A concession has been granted to the Appenzell Railway Co., of Herisau, for a narrow-gage railway from Winkeln to Appenzell via Herisau and Urnaesch and from Herisau to Gossau.

SHIPBUILDING, DOCK CONSTRUCTION.—Spain.—A bill has been presented by the Minister of Marine to the Cortes, providing for the reconstruction of the Spanish Navy and Government Yards. The scheme of new works at the ports of Ferrol, Carthagena and Carraca (Cadiz) will involve an expenditure of 17,780,000 pesetas (about $3,555,000), and 170,550,000 pesetas (about $34,110,000) is required for other works and new ships of war, the total contemplated expenditure amounting to 198,680,000 pesetas (about $39,736,000.) Foreign aid is to be sought for the execution of the shipbuilding programme, but under conditions calculated to interfere as little as possible with the employment of Spanish materials under Spanish supervision.

ELECTRIC-LIGHTING SYSTEM. — Manchuria.—W. D. Straight, U. S. Consul-General at Mukden, reports as follows: The Chinese Merchants' Guild of Mukden intends to undertake the installation of an electric-lighting system for that city and has requested the submission of bids for the work. A local Japanese concern has already offered to install the system for the sum of $95,000 gold. While it is impossible to give the street mileage of Mukden, the circumference of the outer wall is about ten miles and roads traverse the city in all directions, so that the public lights, together with those that will be installed by all the leading hongs and official buildings, will constitute a very extensive system, and the contract for the work will be unusually large and profitable. Arc lights will be used for the principal avenues and buildings and bulbs for the suburbs of the city. Americans desirous of submitting bids for the work should take immediate action. It is stated that the introduction of electric lighting is also planned at Kirin, while other important cities of Manchuria will undoubtedly undertake similar enterprises in the near future. It would therefore be advisable for manufacturers of electrical supplies to maintain representatives in Manchuria who could visit the large cities and interview the officials and merchants for the purpose of encouraging them to install electric-lighting systems, and could be on the spot should bids be requested for the work.

SUBWAY.—Argentina.—We are advised by F. A. Wardlaw, of Buenos Aires, that it is proposed to construct a system of municipal underground railways in Buenos Aires, the general capital of Argentina. The first bids to be called for will embrace the construction of tunnels, stations and roadbed complete of two double-track lines; also the supply of all necessary rolling stock, power-house, transmission system, shops and warehouses. The lines to be constructed under these bids will connect (a) Plaza Once de Setiembre with Plaza de Mayo via Rivadavia, Callao and Avenida de Mayo, connecting with the Western Railway and the Port Railways, length, about four kilometers; and (b) Plaza Constitucion and Retiro via Lima, Cerripo and Juncal approximately 4.5 kilometers. The roadbed is to be laid on quebracho ties and will have 100-lb. rails. The contractor must transport all dirt removed from tunnel excavations to Flores for the use of the municipality. Nearly all the soil to be encountered in building tunnels and stations will be of a compact reddish clay, that will maintain its shape and position in tunnels, excepting at the connection with the Port Railways where the land is filled in. The line connecting Plaza Once de Setiembre and Plaza de Mayo will cross above the line connecting Plaza Constitucion and the Retiro. A station will be built for each line at this point where four elevators will be installed. Lines connecting with the Port Railways and steam railway stations will be built in cuts and in the former case will pass over the large water ducts between the city and the Port. The gage will be 5 ft. 6 ins. and each tunnel will have double tracks, except at the stations, or in special cases, where it may be found convenient to have more than two tracks, or to construct tunnels for one track only. On each line there will be seven stations of general type and six special ones, the latter being that at Plazas Constitucion, Mayo and Once de Setiembre, Avenida Callao, Retiro and at the crossing of the two lines at Avenida de Mayo. The length of the platforms are to be not less than 84 yds. The road shall be provided with the most modern system of automatic signals. Work is to be commenced simultaneously at the principal stations named above excepting the section between Avenida de Mayo and Retiro. It is estimated that the cost including all construction and the cost of the power-house will average $1,146,150, complete and ready for service.

After the two principal routes have been constructed it is proposed to build an underground line to Belgrano, Villa Ortuzar, Flores, Barracas, and through various streets of the city.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.25 to 2.45 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $31 to $33; old iron f. o. b. New York, $25 to $25.50; old steel, long lengths, $17.50 to $18; old steel, short pieces, $16.50 to $17.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 20 to 45 lbs., $32; 16-lb., $33; and 12-lb., $34 at mill.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts; angles, 3 × 2 and up to 6 × 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates tank, 1.84½ to 1.94½ cts; flange, 1.94½ to 2.09½ cts.; marine, 2.14½ to 2.19½ cts.; still bottoms, 2.14½ to 2.19½ cts.; fire-box, 2.75 to 3.50 cts.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—

Northern—	
No. 1 X foundry	$25.00 to $25.50
No. 2 X foundry	24.50 to 25.00
No. 2 plain	24.00 to 24.50
Gray forge	23.50 to 24.00
Basic	23.00 to 23.50
Virginia—	
No. 1 foundry	25.50 to 26.00
No. 2 foundry	25.00 to 25.50
Basic	22.50 to 24.00
Southern—	
No. 1 foundry	25.00 to 26.00
No. 2 foundry	24.50 to 25.50
No. 3 foundry	24.00 to 25.00
No. 4 foundry	23.50 to 24.50
No. 1 soft	25.00 to 25.50
No. 2 soft	24.50 to 25.00
Gray forge	22.50 to 23.00
Mottled	21.50 to 22.50
At Chicago—	
Lake Superior Charcoal	$27.00 to $27.25
Northern Coke Foundry, No. 1	25.50 to 26.00
Northern Coke Foundry, No. 2	25.00 to 25.50
Northern Coke Foundry, No. 3	24.50 to 25.00
Northern Scotch, No. 1	26.00 to 26.50
Ohio Strong Softeners, No. 1	26.00 to 26.50
Ohio Strong Softeners, No. 2	25.50 to 26.00
Southern Coke, No. 1	26.35 to 26.85
Southern Coke, No. 2	25.85 to 26.35
Southern Coke, No. 3	25.35 to 25.85
Southern Coke, No. 4	24.35 to 24.85
Southern Coke, No. 1 Soft	26.35 to 26.85
Southern Coke, No. 2 Soft	25.85 to 26.35
Southern Gray Forge	22.35 to 22.85
Southern Mottled	22.35 to 22.85
Malleable Bessemer	25.50 to 26.00
Standard Bessemer	25.90 to 26.40
Jackson Co. and Kentucky Silvery, 6%	31.40 to 31.90
Jackson Co. and Kentucky Silvery, 8%	32.40 to 32.90
Jackson Co. and Kentucky Silvery, 10%	33.40 to 33.90
At Pittsburg, f. o. b. cars—	
No. 2 foundry	$23.00 to $23.50
Gray forge	22.00 to 22.50
Bessemer iron	23.50 to 24.50
Ferromanganese	61.00 to 62.00
Muck bars	37.50 to 38.00
Iron bars	1.75
Cut nails	2.05

Cast-Iron Pipe:
New York—Carload lots, net tons, 6-in., at tidewater, $34.50 to $35.
Chicago—4-in. water pipe, $37 to $38; 6-in. to 12-in., $36 to $37; over 12-in., $35 to $36, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $20 to $24 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $35.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 20.50 to 21.50 cts.; electrolytic, 20 to 20.50 cts.; casting, 19.50 to 20 cts.
Lead:
New York, spot, 5.15 to 5.25 cts.
Spelter:
New York, spot, 5.90 to 5.95 cts.
Tin:
New York, spot, 39.80 to 40 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts., 7 × 9 ins. × 8½ ft., 79 to 80 cts.

CIVIL SERVICE EXAMINATIONS.

COMPUTER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Aug. 21-22 to secure eligibles from which to make certification to fill a vacancy in the position of Computer in the Coast and Geodetic Survey, at $1,000 a year, and similar vacancies as they may occur under the Coast and Geodetic Survey. Age limit, 20 years or over. Application form 1312.

*ENGINEERS, DRAFTSMEN, ETC. — Albany, N. Y.—The State Civil Service Commission will hold examinations on Aug. 24, at Albany, for the following positions: Assistant Civil Engineer, $5 to $6 a day; Bridge Designer, $1,500 to $2,100; Bridge Draftsman, $1,200 to $1,500; Civil Engineering Draftsman, $4 to $5 a day; Foreman of Rock Borings, $3.50 to $5 a day; Leveler, $4.50 to $5 a day; Inspector of Tunnels, Dept. of Labor, $1,500. Charles S. Fowler, Ch. Examiner, Albany.

SUBINSPECTORS.—North Chicago, Ill.—An examination will be held on Aug. 16 at the Federal Building, Chicago, for the purpose of establishing an eligible register of Subinspectors of Building Construction Work, U. S. Naval Training Station, Great Lakes, North Chicago, Ill. Pay of first grade positions, $4 to $5.04 a day; pay of second grade positions, $2.48 to $3.52 a day. Applications will be addressed to the "Commandant U. S. Naval Training Station, Great Lakes, North Chicago, Ill.," and must be delivered to him on or before Aug. 12. No application received after that date will be considered.

PLAN EXAMINER. — New York, N. Y.—The Municipal Civil Service Commission, 299 Broadway, will receive applications until 4 p. m., Aug. 1, for the position of Plan Examiner, Tenement House Department. The examination will be held at 10 a. m., on Aug. 22. The general paper will presuppose a knowledge of the Tenement House Law, of the Sanitary Code and plumbing regulations so far as they affect the Tenement House Department, and of the relations of that Department with the Bureau of Buildings. Candidates may also be called on to show their practical ability to read plans. The minimum age is 21 years. There are 28 vacancies. The salary is $1,050 to $1,350 a year. Frank A. Spencer, Secy.

AID IN GRAIN STANDARDIZATION.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Aug. 21, to secure eligibles from which to make certification to fill vacancies in the position of Aid in Grain Standardization (male), in the Bureau of Plant Industry, Dept. of Agriculture, at salaries ranging from $600 to $1,000 a year, and similar vacancies as they may occur. It is expected that appointments will be made at the laboratories at Baltimore, Buffalo, Chicago, Duluth, Minneapolis, New Orleans, New York, Philadelphia and St. Louis, and to grain laboratories in other cities as they may be established. Men only will be admitted to this examination. Age limit, 20 years, or over. Application form 1093.

CHIEF ENGINEER.—Chicago, Ill.—The U. S. Civil Service Commission announces an examination on Aug. 28, to secure eligibles to fill a vacancy in the position of Chief Engineer of the United States Court-House and Post-Office building at Chicago, Ill., and vacancies as they may occur in the Custodian Service throughout the United States requiring similar qualifications. The salary of the specific position to be filled will be from $1,800 to $2,500 a year, the entrance salary to be $1,800. It is desired to secure the services of a person not only qualified to administer the local engineering affairs of the building named, but competent also to act as consulting engineer on questions which may arise in regard to the mechanical and electrical equipment of public buildings in the city of Chicago and in the territory contiguous thereto, and who will be able to prepare plans and specifications and supervise the execution of engineering work of a general character. No applicant who has not had at least five years' experience in engineering work similar to that required in this position will be admitted to the examination. Technical education will, however, be given due weight as a part of the required five years of practical experience. More than one day will be required for this examination. Age limit, 25 to 45 years on the date of the examination. All honorably discharged United States soldiers and sailors of the war of the rebellion will be admitted to this examination without regard to the maximum age limit. Application forms 1052 and 375.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

CONCRETE MOLDS.—Bel Air, Md. — We are in receipt of a letter from John A. Evans, Bel Air, Md., stating that he desires the addresses of manufacturers of molds for concrete fence post.

PIPE AND BOILER.—New York, N. Y.—Muralt & Co., 114 Liberty St., New York City, desires information regarding brass piping 1½ and 2-ins. in diameter and 1-32-in. in thickness. Also for a vertical tubular steam boiler complete with stack.

INDUSTRIAL NOTES.

THE SULLIVAN MACHINERY CO., of Chicago, announces that its branch office at San Francisco has been removed from 319 Howard St. to 26 Fremont St. Mr. Howard T. Walsh is manager of that branch.

THE MINNEAPOLIS STEEL MACHINERY CO., Minneapolis, Minn., announces the opening of an office at 352 Phoenix Bldg., Butte, Mont., under the management of Mr. J. E. Lanning.

THE RAQUETTE RIVER PAPER CO., Potsdam, N. Y., has contracted with the Ambursen Hydraulic Construction Co., Boston, it is stated, for the building of a concrete-steel dam about 20 ft. high and 309 ft. long across the Raquette River at that point.

B. F. STURTEVANT CO, of Boston, Mass., report recent sales of their new high pressure rotary type blowers as follows: Penberthy Injector Co., Detroit, Mich.; James J. Anderson, Chicago, Ill.; Boston Consolidated Mining Co., Salt Lake City, Utah; Conduit Co., Hastings, N. Y.; Edmund Hudson, Hartford, Conn.; American Storage Battery Co., Cambridgeport, Mass.; Sterritt-Thomas Fdy. Co., Pittsburg, Pa.; Traylor Engineering Co., Denver, Colo.; The White Co., Cleveland, Ohio; Davis & Furber Machine Co., North Andover, Mass.; and Brompton Pulp & Paper Co., East Angus, P. Q.

J. H. WAGENHORST & CO., Youngstown, manufacturers of electric blue printing machines, report the following partial list of sales:
Cleveland Crane & Car Co., Wickliffe, O.
Warren Steam Pump Co., Warren, Mass.
Vulcan Iron Works, Detroit, Mich.
A. O. Smith Co., Milwaukee, Wis.
Traylor Engineering Co., New York.
John S. Cole Co., Charleston, W. Va.
Carnegie Steel Co., Youngstown, Ohio.
District Pumping Station, Washington, D. C.
C. P. & E. R. R. Co., Willoughby, Ohio.
Eugene Dietzgen Co., Chicago, Ill.
Pardee Bros. & Co., Lattimer Mine, Pa.
Tennessee Coal, Iron & R. R. Co., Bessemer, Ala.

THE AUSTIN WESTERN CO., Ltd., Chicago, Ill., states that, during the first month that the new American Motor Roller was built, the following sales were made:
City of St. Paul, Minn.
City of Two Harbors, Minn.
Duluth Township, St. Louis County, Minn.
City of Hoquiam, Wash.
P. B. Moss, Billings, Mont.
Burke Bros., Ft. Smith, Ark.
Village of Shelby, Mich.
Fayette County, W. Va.
Harris County, Texas.
Bradley County, Tenn.
City of Charleston, W. Va.
Logan County, Ohio.
Erie Township, Ottawa County, Ohio.
Highland Township, Elk County, Pa.
Cherrytree Township, Venango County, Pa.
Russell County, Va.

THE ENGINEER CO., 111 Broadway, New York, advises that Mr. Embury McLean has acquired the interests of Mr. H. B. Haigh and Mr. John MacCormack in The Engineer Co., and has become president, Mr. Haigh and Mr. MacCormack having resigned as president and second vice-president, respectively. Mr. North McLean is the treasurer, and Mr. R. E. Fox, Jr., secretary. The company has relinquished its rights in Mr. MacCormack's patents on his stoker, and he will engage independently in its manufacture. This leaves the company free to push the installation of the "balanced draft" system in connection with any type of hand or mechanically stoked boiler furnace. At the present time the system is being used on boilers having a total capacity of about 500,000 HP. The directorate of the Engineer Co. include the officers mentioned above with J. F. Tapley, R. M. Searle and George Davies.

THE NEW YORK STATE STEEL CO., of Buffalo, N. Y., after a thorough trial of a 4,000-HP. We-Fu-Go Water Softening and Purifying System manufactured by Wm. B. Scaife & Sons Co., of Pittsburg, Pa., have placed an order with them for another 4,000 HP. System to be added to their present system, making a total of 8,000 HP.

The large number of orders received by Wm. B. Scaife & Sons Co. for Water Softening and Purifying Systems is evidence of the increased interest being displayed by steam users and manufacturers in overcoming the many expenses and annoyances connected with the use of hard or dirty water. A natural supply of clean soft water is extremely rare, but the Scaife or We-Fu-Go Softening and Purifying Systems bring such a possibility within reach.

Other sales of the We-Fu-Go system reported by Wm. B. Scaife & Sons Co., are:
The Andrews Steel Co., Newport, Ky., 3,750 HP.
National Home for Disabled Volunteer Soldiers, Dayton, O., one 300,000-gallon per 24-hour; two 1,200-gallon per hour.
Rochester & Pittsburg Coal & Iron Co., DeLancey, Pa., 1,500 HP. (2d contract.)
Youngstown Sheet & Tube Co., Youngstown, Ohio, 15,000 HP.
Pennsylvania Salt Mfg. Co., Natrona, Pa., 5,000 HP. (2d contract.)
Norwalk Iron & Steel Co., Norwalk, O., 1,000 HP.
McConway & Torley Co., Pittsburg, Pa., 1,000 HP.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 40.

SEWER OUTLET.

Asbury Park, N. J.

Sealed proposals, addressed to the undersigned at the Office of the Department of Water and Sewers, 711 Asbury Ave., Asbury Park, N. J., will be received until 12 o'clock noon of SATURDAY, AUGUST 17, 1907, for furnishing all labor, materials and machinery, and laying 1,200 feet of 12-inch wrought iron sewer outlet pipe, extending seaward from tide mark.

Specifications on application.

The right is reserved to reject any or all bids and to award as may appear to be to the best interest of the city.

JOHN L. COFFIN,
Supt. Dept. of Water and Sewers.
July 25, 1907. 5-2t

SEWER CONSTRUCTION.

Omaha, Neb.

Sealed proposals will be received at the office of the City Engineer up to two o'clock P. M., Monday, August 26th, for the construction of storm water sewers and appurtenances as per plans and specifications on file in the Office of the City Engineer.

The work to be done embraces approximately as follows:
840 feet sewer, 10 feet in diameter;
880 feet sewer, 11 feet 3 ins. in diameter;
1,440 feet sewer, 12 feet in diameter;
250 feet, more or less, of 16 x [illegible] reinforced concrete construction;
80 feet sewer, 42 inches in diameter;
1,600 feet sewer, 30 inches in diameter;
150 feet open ditch work.

Payment for said work to be made upon a cash basis; 90% on monthly estimates, an additional 5% when work is accepted and 5% in one year after the completion of the work. Each bid shall be accompanied with a certified check in the sum of $3,000.00 as guarantee of good faith that the bidder will promptly enter into contract if award shall be made to him. The City reserves the right to reject any or all bids.

ANDREW ROSEWATER,
5-4t City Engineer.

CONCRETE.

Ithaca, N. Y.

Wanted to sublet a thousand yards of second and third class concrete at six and eight dollars. 15,000 yards of earth excavation, 30 cts.; no overhaul. Address BAILEY, JOHNSON & SAUNDERS, Ithaca, N. Y. 5-1t

REINFORCED CONCRETE BRIDGE.

Elizabeth, N. J.

Bids will be received at the Court House, Elizabeth, N. J., at 2.30 P. M., on Wednesday, August 7, 1907, for the construction of a reinforced concrete bridge over the Robinson Branch of the Rahway River, at Rahway, N. J. Span, 60 feet, width 46 feet.

Plans and specifications may be examined at the office of J. L. BAUER, County Engineer, 215 Broad Street, Elizabeth, N. J. 5-1t

U. S. ENGINEER OFFICE, 815 Witherspoon Building, Philadelphia, Pa., July 31, 1907.—Sealed proposals for constructing two steel, twin-screw suction dredges for New York Harbor, N. Y., will be received here until 2.30 P. M., Aug. 30, 1907, and then publicly opened. Information furnished on application. J. C. SANFORD, Major, Engrs. 5-4t

U. S. ENGINEER OFFICE, Boston, Mass., July 31, 1907.—Sealed proposals for dredging in Weymouth Back River, Mass., will be received here until 12 M., August 20, 1907, and then publicly opened. Information on application. EDW. BURR, Maj. Engrs. 5-3t

U. S. ENGINEER OFFICE, 537 Congress Street, Portland, Me., July 30, 1907.—Sealed proposals for rock excavation in Cape Porpoise Harbor, Me., will be received at this office until 12 M., August 30, 1907, and then publicly opened. Information furnished on application. GEO. A. ZINN, Maj., Engrs. 5-4t

SITUATIONS OPEN

WANTED AT ONCE—Civil and electrical engineer, capable of locating and preparing necessary data for financing fifty miles electric line wire application. Address "G. B. 5," Engineering News, New York. 5-1t

WANTED—A graduate engineer, with several years' experience in drafting, for an instructorship in Descriptive Geometry and Drawing in the Department of Civil Engineering of a leading Eastern engineering school. Initial salary $1,200, with prospects of early promotion to an assistant-professorship. Address giving reference, samples of drawing and full particulars, "F. B. 5," Engineering News, New York. 5-3t

WANTED—Experienced draftsmen on architectural and building work in N. Y. City. State technical training, experience, and salary expected. Address "C. B. 5," Engineering News, New York. 5-1t

DRAFTSMAN—Young, rapid and neat worker; familiar with mechanical engineering problem; wanted in engineering office. Address "E. B. 5," Engineering News, New York. 5-1t

DRAFTSMAN—On structural work, chiefly mill construction, general design, estimates and checking details, wanted by manufacturing concern. Address "D. B. 5," Engineering News, New York. 5-1t

WANTED—Two instructors in civil engineering, to teach surveying, railroads, hydraulics, etc. Make application, stating lowest salary and inclosing credentials to MILO S. KETCHUM, Dean College of Engineering, University of Colorado, Boulder, Colo. 5-1t